

ROOF REPLACEMENT

PHYSICAL SCIENCES BUILDING
CONTRA COSTA COLLEGE
2600 MISSION BELL DRIVE
SAN PABLO, CALIFORNIA

PREPARED FOR
CONTRA COSTA COMMUNITY COLLEGE DISTRICT

SCOPE OF PROJECT

- (1)

REMOVE EXISTING BUILT-UP ROOF SYSTEMS. ABATE AS REQUIRED.
- (2)

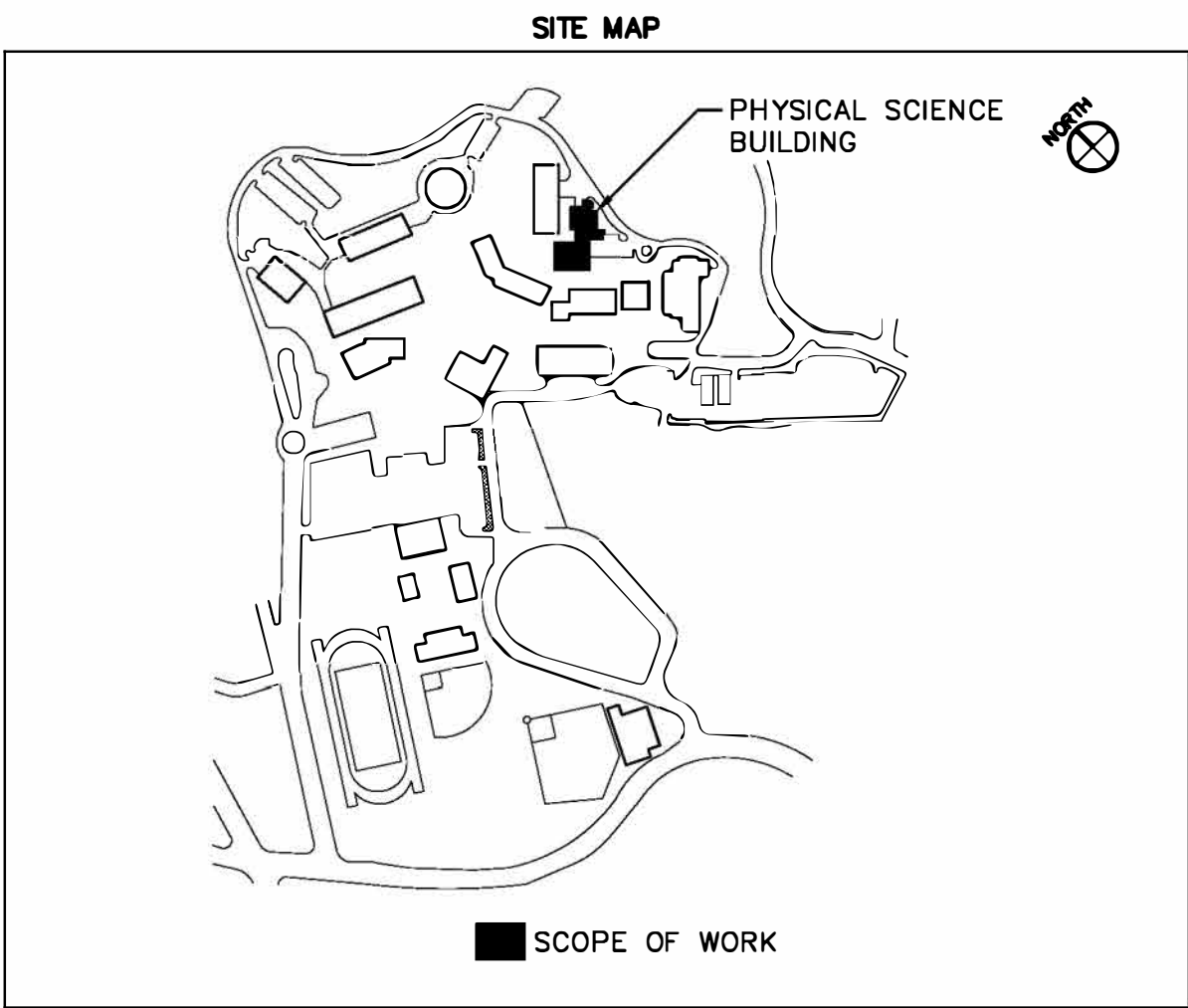
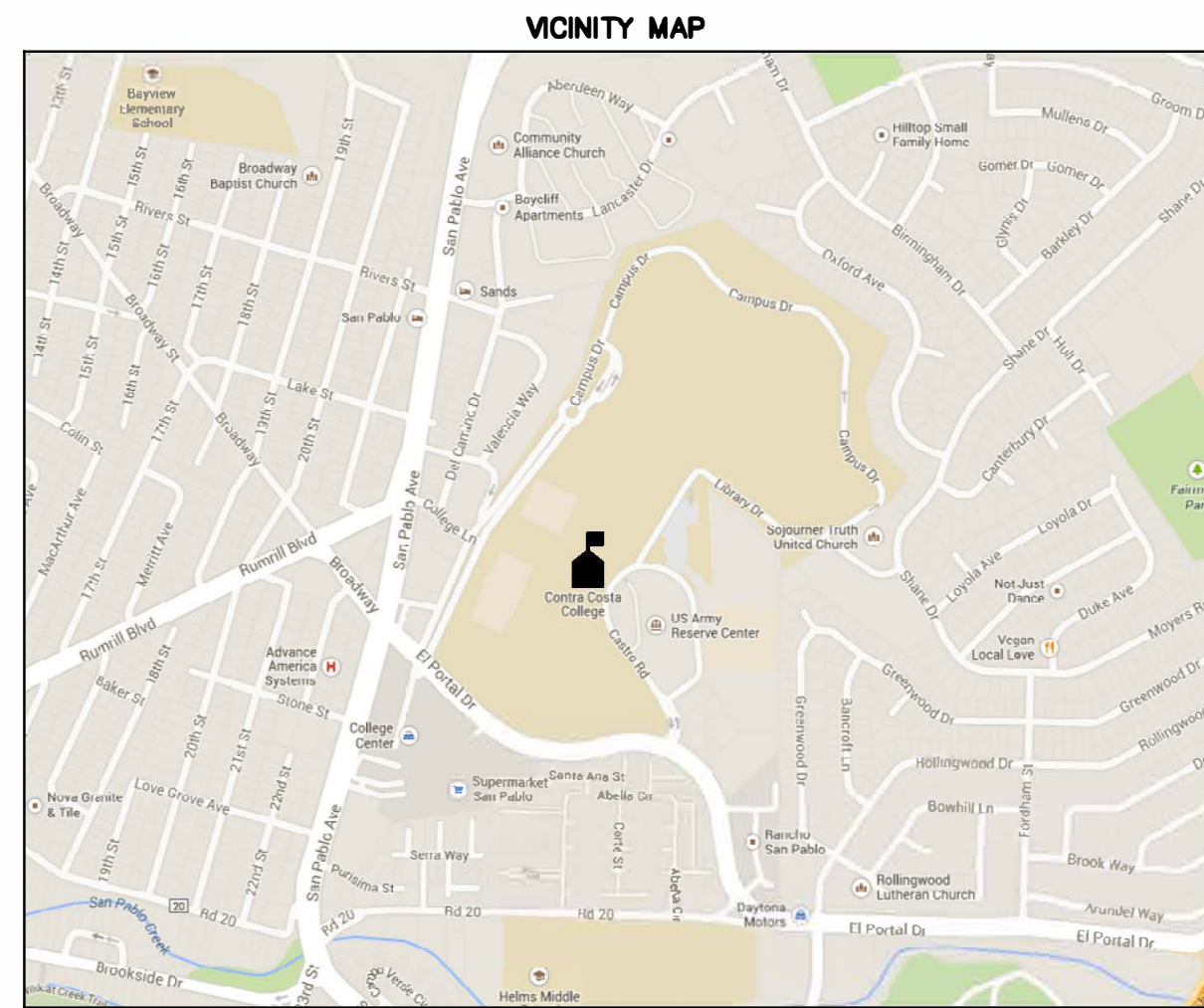
REPLACE DAMAGED (E) WOOD ROOF DECK (UNIT COST/QUANTITY ALLOWANCE).
- (3)

INSTALL NEW TITLE 24-COMPLIANT BUILT-UP ROOF SYSTEMS.
- (4)

INSTALL NEW GUTTERS AND DOWNSPOUTS AS SHOWN IN THE DRAWINGS.
- (5)

PAINT ROOF SHEET METAL FLASHINGS.

DRAWING NO	TITLE
A1.0	TITLE SHEET, GENERAL NOTES, ABBREVIATIONS AND LEGEND
A1.5	SITE PLAN
A2.0D	ROOF DEMOLITION PLAN
A2.0	ROOF PLAN
A2.1	WALK PAD LAYOUT
A10.40	ROOF DETAILS
A10.41	ROOF DETAILS
A10.42	ROOF DETAILS
A10.43	ROOF DETAILS
A10.44	ROOF DETAILS



GENERAL NOTES

- (1)

THE INFORMATION SHOWN ON THE DRAWINGS WAS COMPILED FROM VARIOUS SOURCES AND MAY NOT REFLECT THE ACTUAL CONDITIONS AT THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL VISIT THE SITE(S) AND VERIFY DIMENSIONS AND FIELD CONDITIONS PRIOR TO BID SUBMISSION.
- (2)

THE CONTRACTOR SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF THE OWNER PRIOR TO BID SUBMISSION.
- (3)

REFER TO PROJECT SPECIFICATIONS FOR DETAILED REQUIREMENTS FOR MATERIAL AND WORKMANSHIP.
- (4)

ALL WORK SHALL CONFORM WITH LOCAL, STATE, AND FEDERAL REGULATIONS APPLICABLE TO THE PROJECT.
- (5)

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK PRIOR TO THE START OF CONSTRUCTION.
- (6)

THE CONTRACTOR SHALL MAKE SUBMITTALS AS REQUIRED BY THE PROJECT SPECIFICATIONS.
- (7)

FOR CLARITY, DETAILS SHOWN IN THESE DRAWINGS ARE TYPICAL AND SHALL APPLY UNLESS OTHERWISE NOTED OR SHOWN. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME OR SIMILAR NATURE FOR SIMILAR CONDITIONS.
- (8)

ALL COMPONENTS SHOWN ON THE DRAWING SHALL BE NEW UNLESS INDICATED AS EXISTING (E).
- (9)

THE ARCHITECT/ENGINEER WILL HAVE A REPRESENTATIVE ON-SITE, PART-TIME, DURING CONSTRUCTION TO OBSERVE FOR COMPLIANCE WITH THE DESIGN INTENT AND TO ASSIST THE CONTRACTOR IN RESOLVING VARIATION IN THE EXISTING CONSTRUCTION. THE CONSTRUCTION DOCUMENTS ADDRESS KNOWN CONDITIONS, BUT IT IS ANTICIPATED THAT HIDDEN CONDITIONS WILL BE ENCOUNTERED DURING CONSTRUCTION. THE ARCHITECT/ENGINEER WILL OBSERVE SUCH CONDITIONS AND ISSUE CLARIFICATIONS OR MODIFICATIONS OF EXISTING DESIGN TO REFLECT THOSE CONDITIONS AND DOCUMENT ALL CHANGES.
- (10)

NUMERICAL DIMENSIONS SHALL TAKE PRIORITY OVER SCALED.
- (11)

UNLESS OTHERWISE NOTED, ALL ANGLES SHALL BE RIGHT ANGLES, ALL LINES WHICH APPEAR PARALLEL SHALL BE PARALLEL, AND ALL ITEMS WHICH APPEAR CENTERED SHALL BE CENTERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL LINES TRUE, PLUMB, AND SQUARE.
- (12)

DETAIL DRAWINGS TAKE PRECEDENCE OVER GENERAL AND SMALLER SCALE DRAWINGS. FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL VERIFY ALL SCALED DIMENSIONS BEFORE PROCEEDING WITH THE WORK.
- (13)

THE CONTRACTOR SHALL PROVIDE ALL SHORING AND BRACING NECESSARY TO ENSURE THE STABILITY OF ANY AND ALL PARTS OF THE BUILDING CONSTRUCTION.

ROOF GENERAL NOTES

- (1)

REFER TO THE PROJECT MANUAL FOR WATERTIGHTNESS REQUIREMENTS AFTER DEMOLITION.
- (2)

REFER TO THE ROOF TYPE DETAILS FOR ROOF SYSTEM COMPONENTS.
- (3)

REPORT UNSUITABLE SUBSTRATE CONDITIONS TO THE OWNER. DO NOT INSTALL ROOFING OVER UNSUITABLE SUBSTRATES.
- (4)

REMOVE AND REPLACE IN KIND ALL (E) SHEET METAL ROOFTOP PENETRATIONS, FANS AND VENT UNITS AS INDICATED ON THE ROOF PLANS.
- (5)

INSTALL CRICKETS ON THE UPSLOPE SIDE OF ALL PENETRATIONS GREATER THAN 2 FEET IN WIDTH.
- (6)

RELOCATE (E) CONDUIT, I.E. ELECTRICAL, GAS, WATER, AND COMMUNICATIONS AS REQUIRED TO PERFORM THE WORK.
- (7)

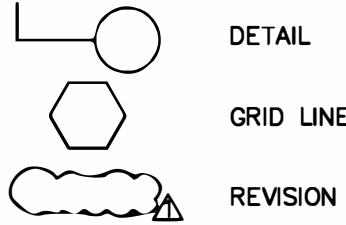
REMOVE AND INFILL ALL ABANDONED MECHANICAL PLATFORMS OR COVERED OPENINGS.
- (8)

ALL ROOF-MOUNTED UNITS ARE EXISTING UNLESS NOTED OTHERWISE.

ABBREVIATIONS

&	AND	I.D.	INSIDE DIAMETER
∠	ANGLE	INT.	INTERIOR
AT	AT	JT.	JOINT
CL	CENTERLINE	LT.	LIGHT JOINT
Ø	DIAMETER/ROUND	MAX.	MAXIMUM
#	POUND OR NUMBER	MEMB.	MEMBRANE
ACOUS.	AIR CONDITIONING	MFR.	MANUFACTURER
A.D.	ACOUSTICAL	MIN.	MINIMUM
ADJ.	AREA DRAIN	MIR.	MIRROR
AL.	ADJUSTABLE	MISC.	MISCELLANEOUS
APPROX.	ALUMINUM	MTL.	METAL
ARCH.	APPROXIMATE	MULL.	MULLION
BD.	ARCHITECTURAL	(N)	NEW
BLK.	BOARD	N	NORTH
BLKG	BLOCK	N.I.C.	NOT IN CONTRACT
C.I.	BLOCKING	NO. OR #	NUMBER
CLG.	CAST IRON	NOM.	NOMINAL
CLKG	CEILING	N.T.S.	NOT TO SCALE
COL.	CALLKING	O.C.	ON CENTER
CONC.	COLUMN	O.D.	OUTSIDE DIAMETER
CONN.	CONCRETE	OPNG.	OPENING
CONSTR	CONNECTION	OPP.	OPPOSITE
CONT.	CONSTRUCTION	PL.	PLATE
CTSK.	CONTINUOUS	PLYWD.	PLYWOOD
CTR.	COUNTER SUNK	PRE-CAST	PRE-CAST
CTYD	CENTER	Q.T.	QUARRY TILE
DBL.	COURTYARD	RAD.	RADIUS
DET.	DOUBLE	RD.	ROOF DRAIN
DIA.	DETAIL	REF.	REFERENCE
DIM.	DIAMETER	REINFORC.	REINFORCED
D.O.	DIMENSION	REQ.	REQUIRED
DS	DOOR OPENING	RGR.	REGISTERED
(E) OR EXST.	DOOR	RM.	ROOM
E	DOWNSPOUT	RWD.	REDWOOD
E.A.	EXISTING	R.W.L.	RAIN WATER LEADER
E.L.	EAST	S	SOUTH OR SKYLIGHT
E.J.	EACH	SCHED.	SCHEDULE
ELEC.	EXPANSION JOINT	SECT.	SECTION
EQ.	ELEVATION	SHT.	SHEET
EXT.	ELECTRICAL	SM.	SMILAR
F	EQUAL	SM.	SHEET METAL
F.A.	EXTERIOR	SPEC.	SPECIFICATION
F.D.	FIRE ALARM	SS	STAINLESS STEEL
FDN.	FLOOR DRAIN	STD.	STEEL
FL.	FOUNDATION	SUSP.	STANDARD
FLASH.	FLOOR	SYN.	SUSPENDED
FT.	FLASHING	T & G	TONGUE AND GROOVE
FTG.	FOOT OR FEET	THK.	THICK
G.A.	FOOTING	TRIP	TRIP
GALV.	GAUGE	TYP.	TYPICAL
GSM	GALVANIZED	U.N.O.	UNLESS NOTED OTHERWISE
H.B.	GALVANIZED SHEET	V.I.F.	VERIFY IN FIELD
HGT.	METAL	W	WEST
HVAC	GYPSUM BOARD	W/	WITH
	HOSE BIB	W.C.	WATER CLOSET
	HOT	WD	WOOD
	HVAC	W/O	WITHOUT
		WT.	WEIGHT

SYMBOLS



LEGEND

—	ROOF EDGE	⊞	SUMP WITH DRAINS
—	GUTTER WITH DOWNSPOUT	⚡	DRAIN
—	PARAPET WALL	⊗	OVERFLOW
—	EXISTING RIDGE/VALLEY LINE	●	DOWNSPOUT
—	CRICKET LINE	⌈	SCUPPER OR OVERFLOW SCUPPER
—	CONDUIT(S) PIPES	⌋	ANTENNA
—	ON WOOD SLEEPERS	⌋	FLUE
---	EXPANSION JOINT	⌋	PLUMBING VENT
F	FAN UNIT	⌋	ELECTRICAL PENETRATION
HATCH	HATCH	⌋	GAS PENETRATION
S	SKYLIGHT	⌋	ROOF MOUNTED SPEAKER/ALARM
U	UPPER	⌋	ROOF MOUNTED LIGHT
S	SMOKE HATCH	⌋	ABANDONED PENETRATION
⊞	DUCT PENETRATION	⌋	HOT STACK
⊞	GRAVITY VENT	EL-#	ELEVATION
⊞	SLEEPER, HEAVY AND FLOATING	→	SLOPE (DOWNWARD)
⌈	ROOF DRAIN LEADER EXIT	⌋	ROOF CROSS-SECTION INDICATOR
⌈	HVAC UNIT	⌋	DUCTWORK
⌈	GANGED PENETRATION	⌋	BOX
⌈	SECURITY CAMERA	⌋	LADDER
		GREY	EXISTING COMPONENT
		⌋	ATTIC VENT



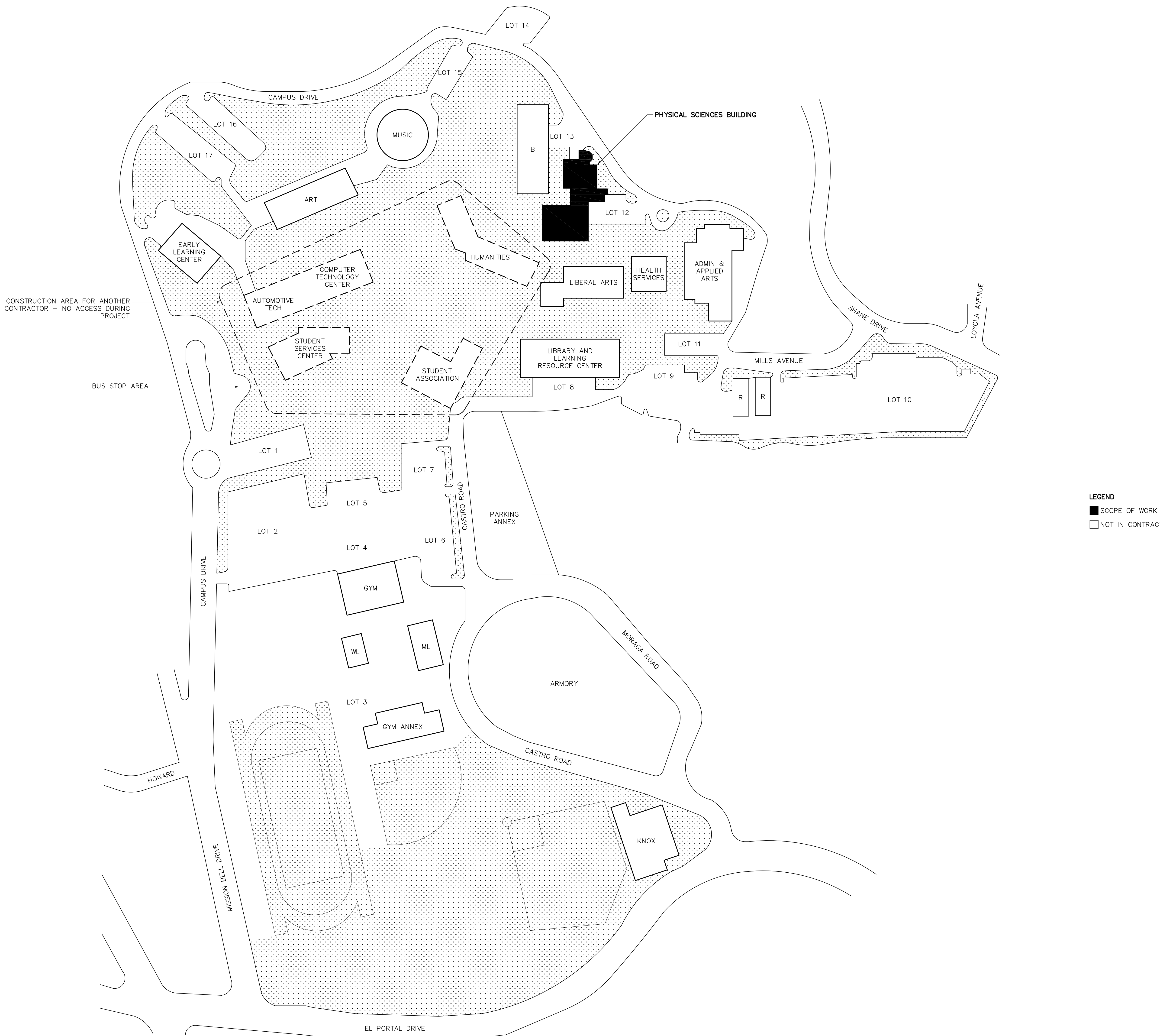
Gale Associates, Inc.
Engineers and Planners
2570 W. El Camino Real | Suite 320
Mountain View, Ca 94040
P 650.941.1112 F 650.941.1154 www.gainc.com
Boston Baltimore Orlando San Francisco

This drawing and the design and construction features disclosed are proprietary to Gale Associates, Inc. and shall not be altered or reused in whole or part without the express written permission of Gale Associates, Inc. Copyright©2013

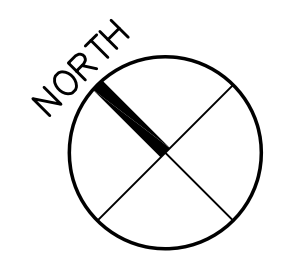


PROJECT	OWNER
ROOF REPLACEMENT PHYSICAL SCIENCES BUILDING CONTRA COSTA COLLEGE 2600 MISSION BELL DRIVE, SAN PABLO, CALIFORNIA	CONTRA COSTA COMMUNITY COLLEGE DISTRICT 500 COURT STREET MARTINEZ, CALIFORNIA
AS-BUILT SET	

NO.	DATE	DESCRIPTION	BY
	1/7/15	AS-BUILT SET	EY
	6/6/14	REVISED BID SET	EY
	2/25/14	BID SET	EY
	2/6/14	90% REVIEW SET	EY
PROJECT NO. 694710			
CADD FILE			
DESIGNED BY AEB			
DRAWN BY EY			
CHECKED BY AEB			
DATE 18 DEC 2013			
DRAWING SCALE NO SCALE			
SHEET TITLE			
TITLE SHEET GENERAL NOTES, ABBREVIATIONS AND LEGEND			
DRAWING NO.			
A1.0			
OF			



1 SITE PLAN
SCALE: NOT TO SCALE



GALE
Gale Associates, Inc.
Engineers and Planners
2570 W. El Camino Real | Suite 320
Mountain View, Ca 94040
P 650.941.1112 F 650.941.1154 www.gainc.com
Boston Baltimore Orlando San Francisco
This drawing and the design and construction features disclosed are proprietary to Gale Associates, Inc. and shall not be altered or reused in whole or part without the express written permission of Gale Associates, Inc. Copyright©2013



PROJECT	ROOF REPLACEMENT PHYSICAL SCIENCES BUILDING CONTRA COSTA COLLEGE 2600 MISSION BELL DRIVE, SAN PABLO, CALIFORNIA	
	OWNER	CONTRA COSTA COMMUNITY COLLEGE DISTRICT 500 COURT STREET MARTINEZ, CALIFORNIA
	AS-BUILT SET	

	1/7/15	AS-BUILT SET	EY
	6/6/14	REVISED BID SET	EY
	2/25/14	BID SET	EY
	2/6/14	90% REVIEW SET	EY
NO.	DATE	DESCRIPTION	BY
PROJECT NO.		694710	
CADD FILE			
DESIGNED BY		AEB	
DRAWN BY		EY	
CHECKED BY		AEB	
DATE		18 DEC 2013	
DRAWING SCALE		AS NOTED	

SHEET TITLE	
SITE PLAN	
DRAWING NO.	
A1.5	
OF	



Gale Associates, Inc.
Engineers and Planners
2570 W. El Camino Real | Suite 320
Mountain View, Ca 94040
P 650.941.1112 F 650.941.1154 www.gainc.com
Boston Baltimore Orlando San Francisco

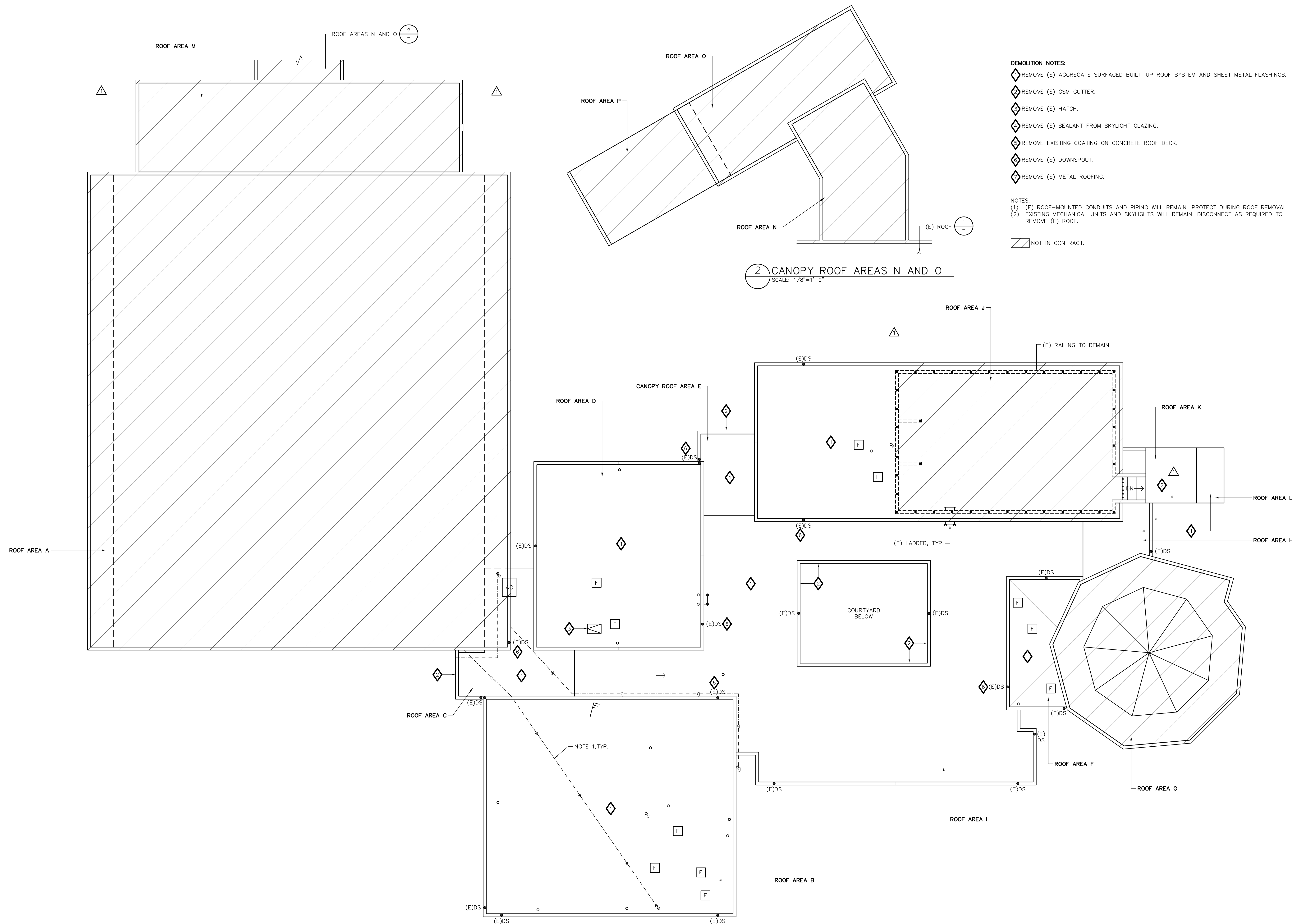
This drawing and the design and construction features disclosed are proprietary to Gale Associates, Inc. and shall not be altered or reused in whole or part without the express written permission of Gale Associates, Inc.
Copyright©2013



PROJECT
ROOF REPLACEMENT
PHYSICAL SCIENCES BUILDING
CONTRA COSTA COLLEGE
2600 MISSION BELL DRIVE, SAN PABLO, CALIFORNIA
OWNER
CONTRA COSTA COMMUNITY COLLEGE DISTRICT
500 COURT STREET
MARTINEZ, CALIFORNIA
AS-BUILT SET

	1/7/15	AS-BUILT SET	EY
	6/6/14	REVISED BID SET	EY
△	5/15/14	ADDENDUM 1	EY
	2/25/14	BID SET	EY
	2/6/14	90% REVIEW SET	EY
NO.	DATE	DESCRIPTION	BY
PROJECT NO.	694710		
CADD FILE			
DESIGNED BY	AEB		
DRAWN BY	EY		
CHECKED BY	AEB		
DATE	18 DEC 2013		
DRAWING SCALE	AS NOTED		

SHEET TITLE
ROOF DEMOLITION PLAN
DRAWING NO.
A2.0D
OF



- DEMOLITION NOTES:
- REMOVE (E) AGGREGATE SURFACED BUILT-UP ROOF SYSTEM AND SHEET METAL FLASHINGS.
 - REMOVE (E) GSM GUTTER.
 - REMOVE (E) HATCH.
 - REMOVE (E) SEALANT FROM SKYLIGHT GLAZING.
 - REMOVE EXISTING COATING ON CONCRETE ROOF DECK.
 - REMOVE (E) DOWNSPOUT.
 - REMOVE (E) METAL ROOFING.

- NOTES:
- (1) (E) ROOF-MOUNTED CONDUITS AND PIPING WILL REMAIN. PROTECT DURING ROOF REMOVAL.
 - (2) EXISTING MECHANICAL UNITS AND SKYLIGHTS WILL REMAIN. DISCONNECT AS REQUIRED TO REMOVE (E) ROOF.

NOT IN CONTRACT.

2 CANOPY ROOF AREAS N AND O
SCALE: 1/8"=1'-0"

1 ROOF DEMOLITION PLAN
SCALE: 1/8"=1'-0"



This drawing and the design and construction features disclosed are proprietary to Gale Associates, Inc. and shall not be altered or reused in whole or part without the express written permission of Gale Associates, Inc.
Copyright©2013




PROJECT

ROOF REPLACEMENT
 PHYSICAL SCIENCES BUILDING
 CONTRA COSTA COLLEGE
 26000 MISSION BELL DRIVE, SAN PABLO, CALIFORNIA

CONTRA COSTA COMMUNITY COLLEGE DISTRICT

AS-BUILT SET

	1/7/15	AS-BUILT SET	E
	6/6/14	REVISED BID SET	E
	5/15/14	ADDENDUM 1	E
	2/25/14	BID SET	E
	2/6/14	90% REVIEW SET	E
NO.	DATE	DESCRIPTION	B

PROJECT NO.	694710
CADD FILE	
DESIGNED BY	AEB
DRAWN BY	EY
CHECKED BY	AEB
DATE	18 DEC 2013
DRAWING SCALE	AS NOTED

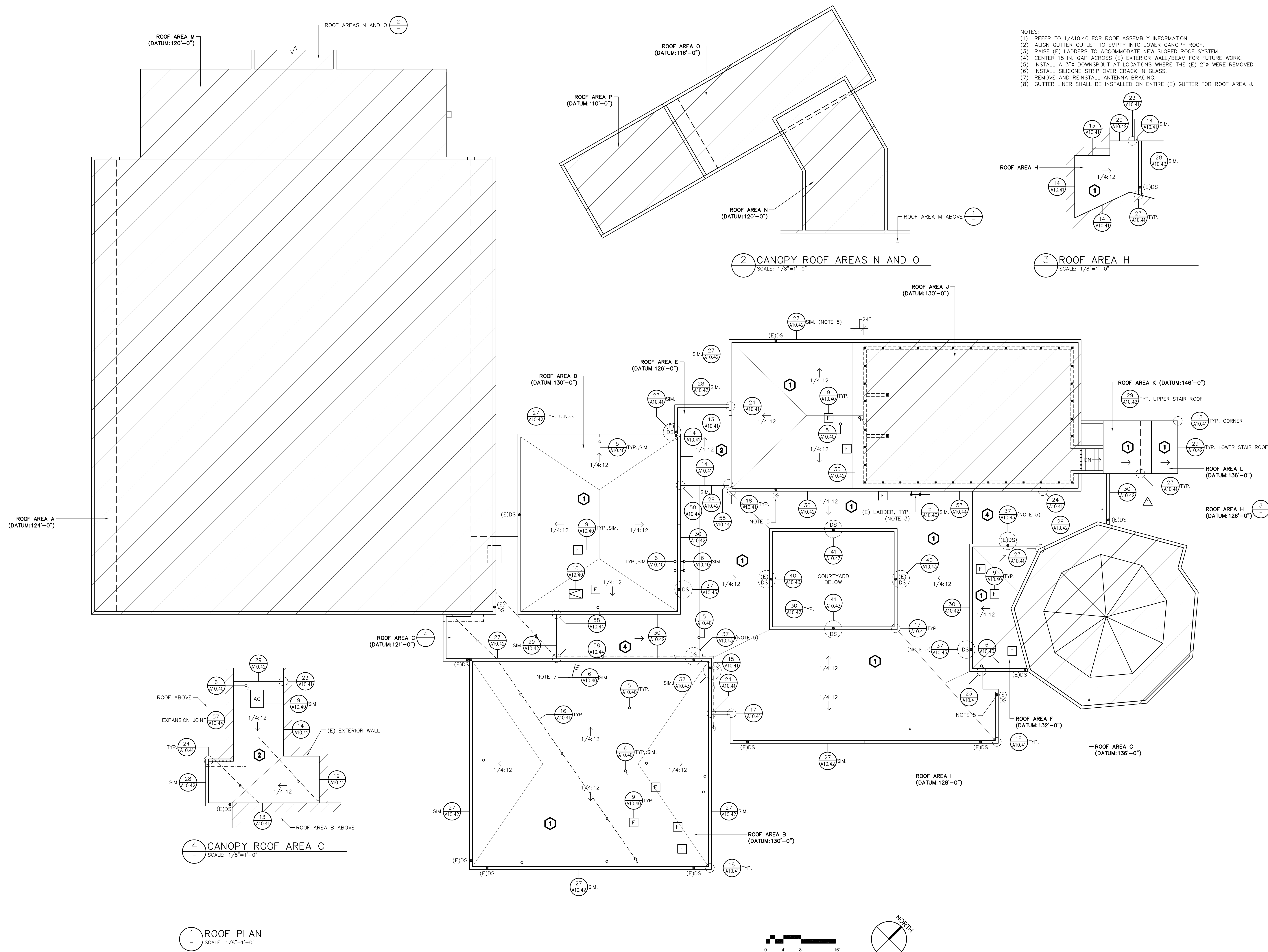
SHEET TITLE

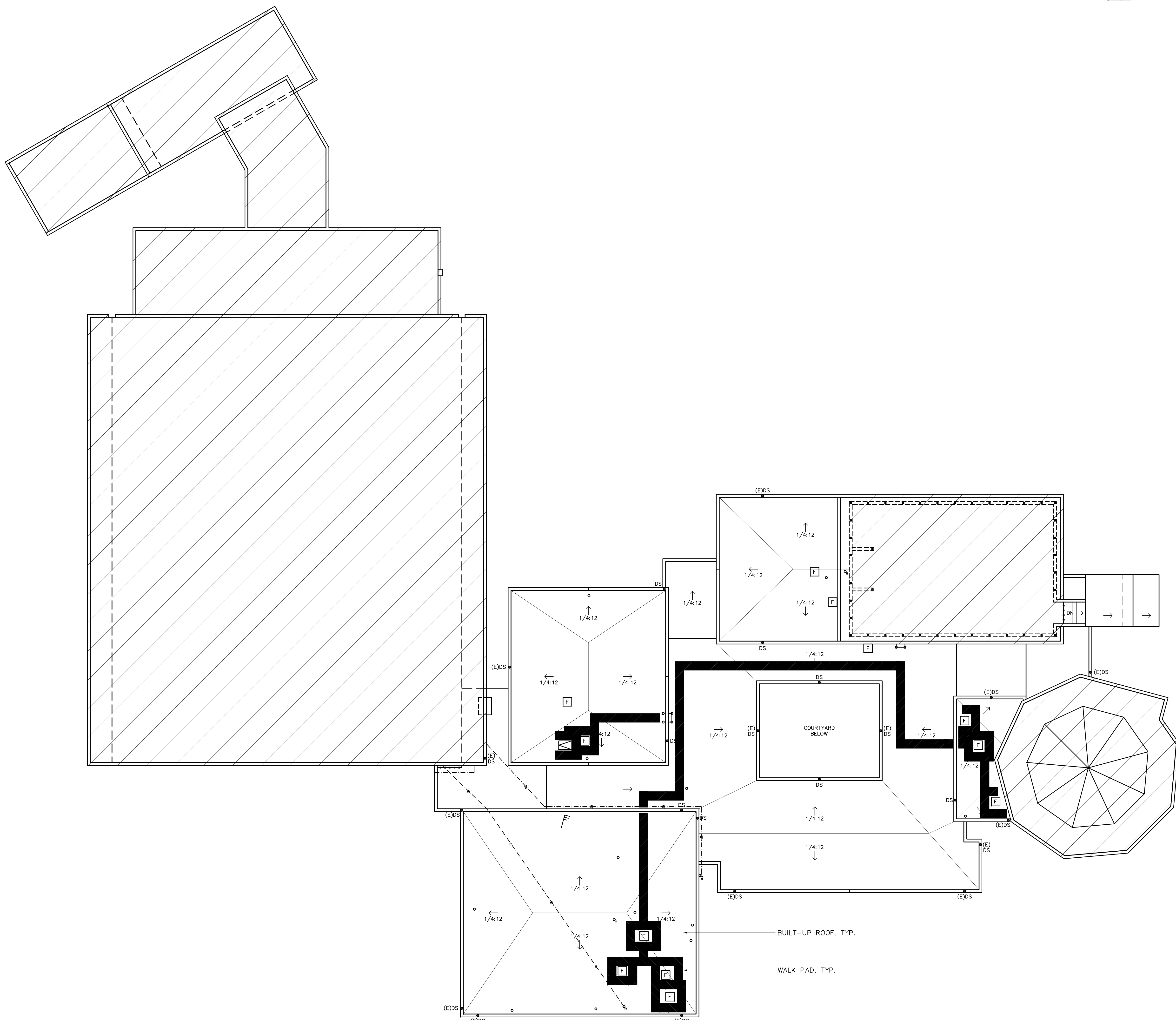
ROOF PLAN

DRAWING NO.

A2.0

01





NOTES:
(1) COAT WALK PADS TO MATCH COATED ROOF.
(2) REFER TO A2.0 FOR ROOF PLAN WITH DETAIL REFERENCES.

NOT IN CONTRACT.

GALE
Gale Associates, Inc.
Engineers and Planners
2570 W. El Camino Real | Suite 320
Mountain View, CA 94040
P 650.941.1112 F 650.941.1154 www.gainc.com
Boston Baltimore Orlando San Francisco

This drawing and the design and construction features disclosed are proprietary to Gale Associates, Inc. and shall not be altered or reused in whole or part without the express written permission of Gale Associates, Inc.
Copyright©2013



PROJECT
**ROOF REPLACEMENT
PHYSICAL SCIENCES BUILDING
CONTRA COSTA COLLEGE
2600 MISSION BELL DRIVE, SAN PABLO, CALIFORNIA**

OWNER
CONTRA COSTA COMMUNITY COLLEGE DISTRICT
500 COURT STREET
MARTINEZ, CALIFORNIA

AS-BUILT SET

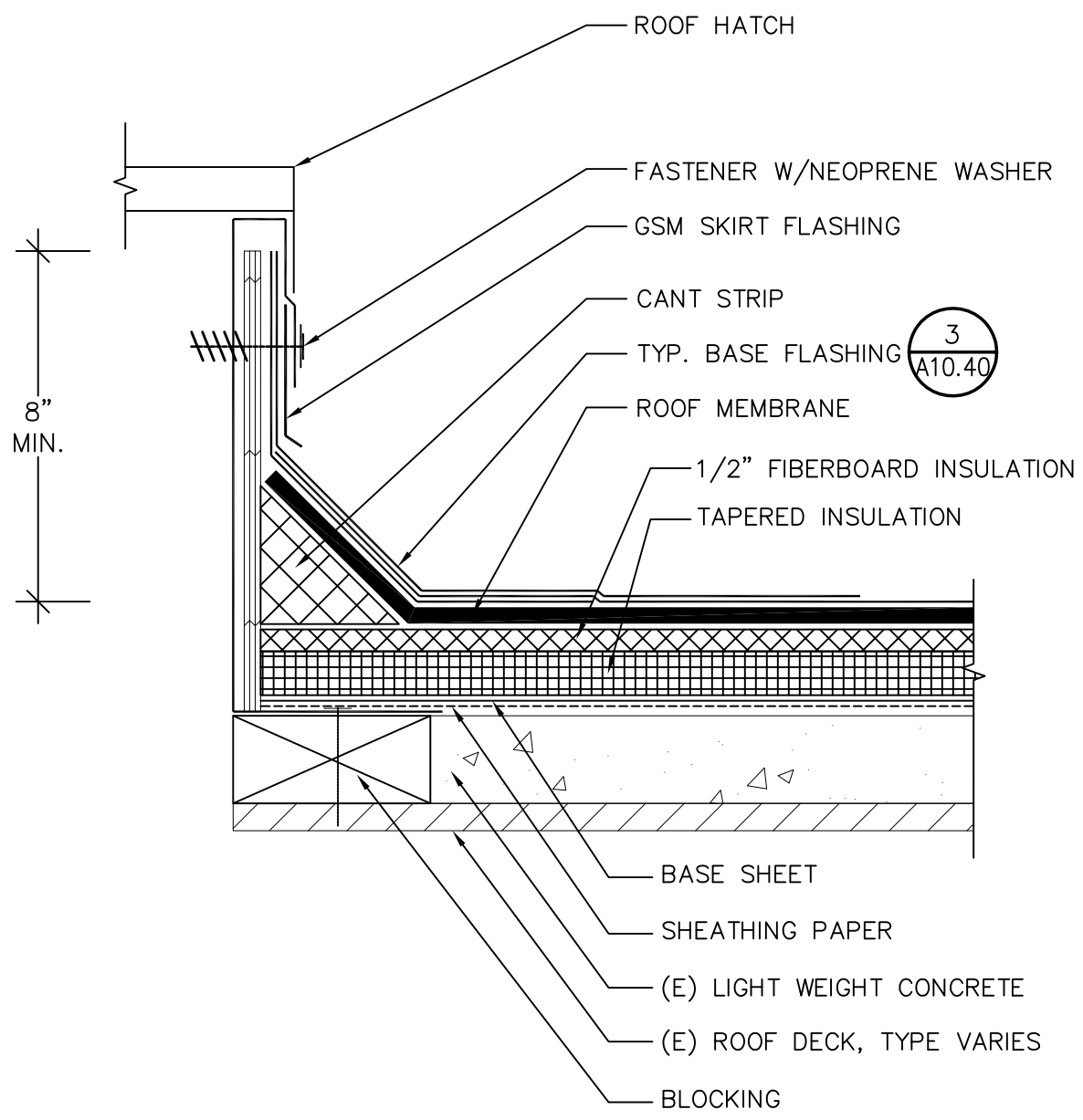
NO.	DATE	DESCRIPTION	BY
	1/7/15	AS-BUILT SET	EY
	6/6/14	REVISED BID SET	EY
	2/25/14	BID SET	EY
	2/6/14	90% REVIEW SET	EY
PROJECT NO. 694710			
CADD FILE			
DESIGNED BY AEB			
DRAWN BY EY			
CHECKED BY AEB			
DATE 18 DEC 2013			
DRAWING SCALE AS NOTED			

SHEET TITLE
**WALK PAD
LAYOUT**

DRAWING NO.
A2.1

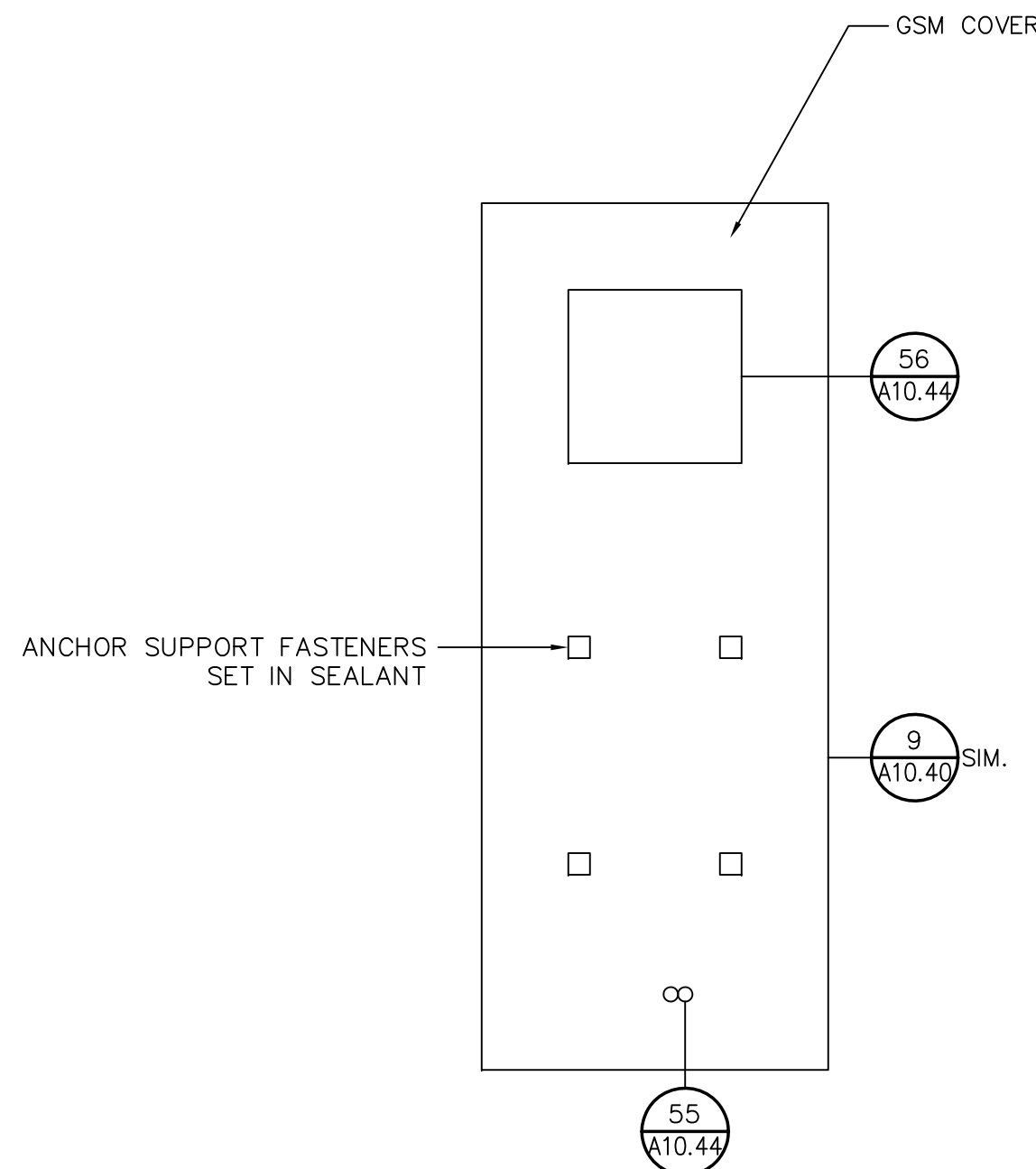
OF

1 WALK PAY LAYOUT
SCALE: NOT TO SCALE

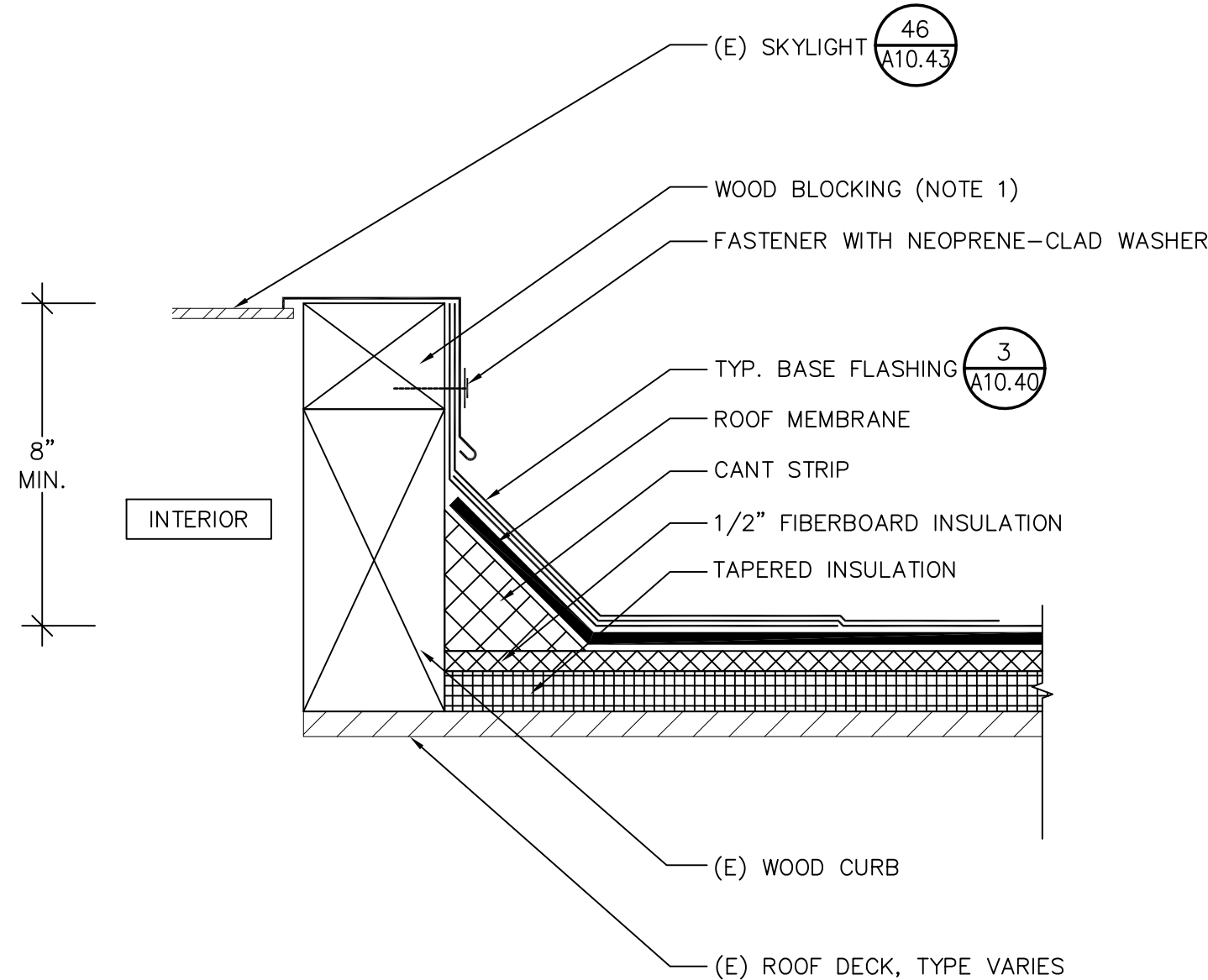


NOTE:
(1) REMOVE AND REPLACE (E) ROOF HATCH (SEE ARCHITECTURAL DRAWINGS).

10 HATCH
A10.40 SCALE: NOT TO SCALE

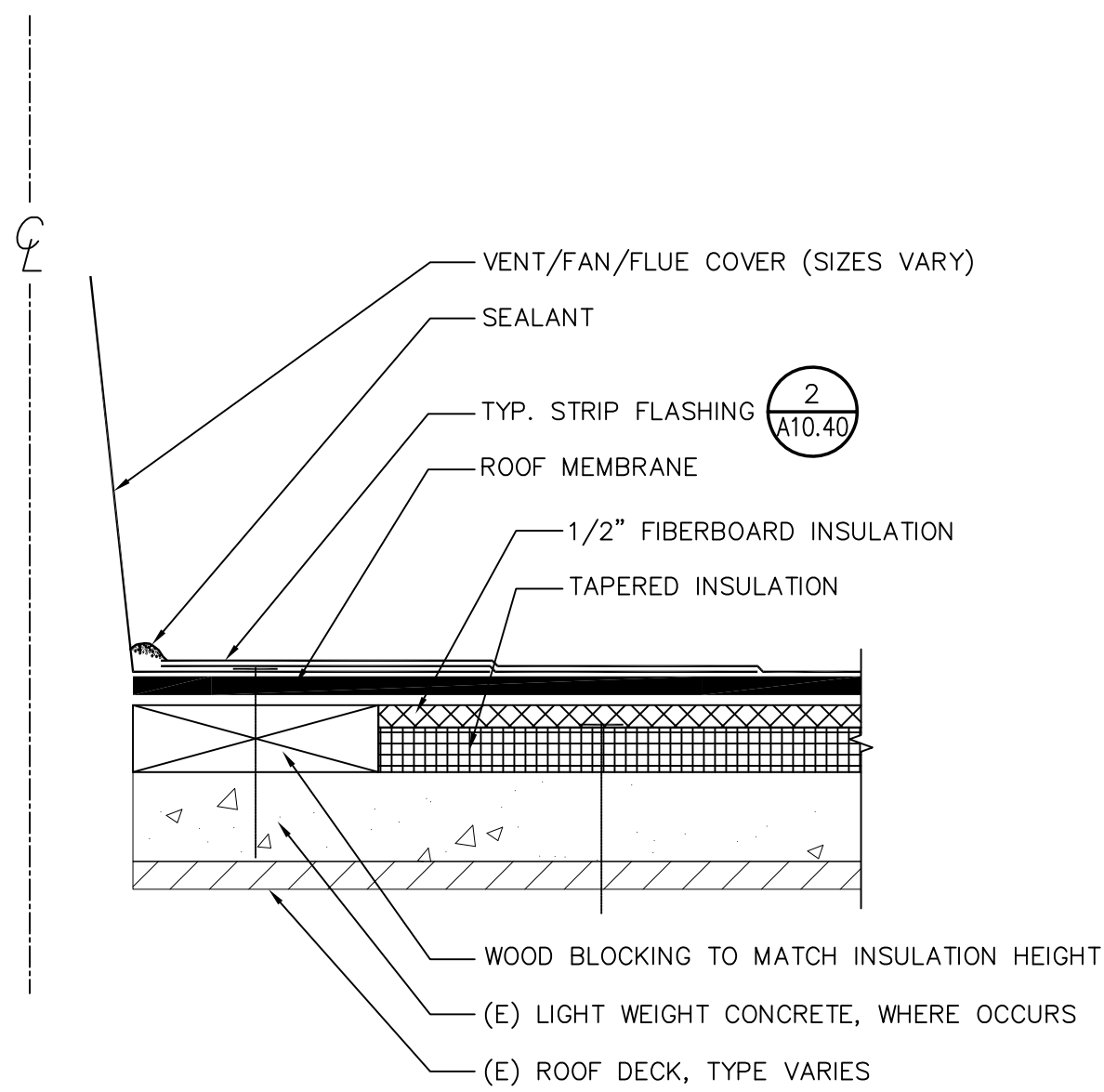


11 MECHANICAL UNIT-TYPE I
A10.40 SCALE: NOT TO SCALE



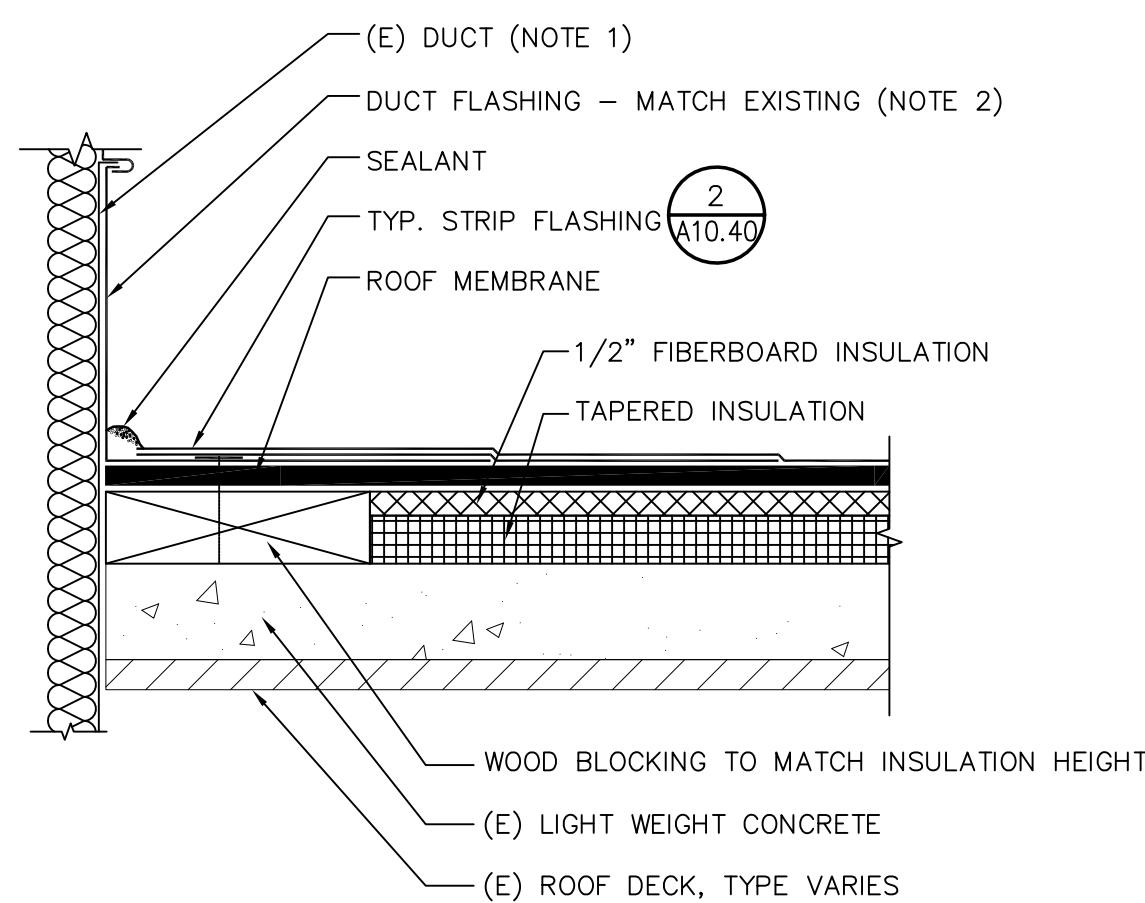
NOTES:
(1) INSTALL WOOD BLOCKING AS REQUIRED TO ACHIEVE STATE MINIMUM BASE FLASHING HEIGHT.
(2) LIFT/RAISE SKYLIGHT TO INSTALL NEW WOOD BLOCKING.

12 SKYLIGHT
A10.40 SCALE: NOT TO SCALE



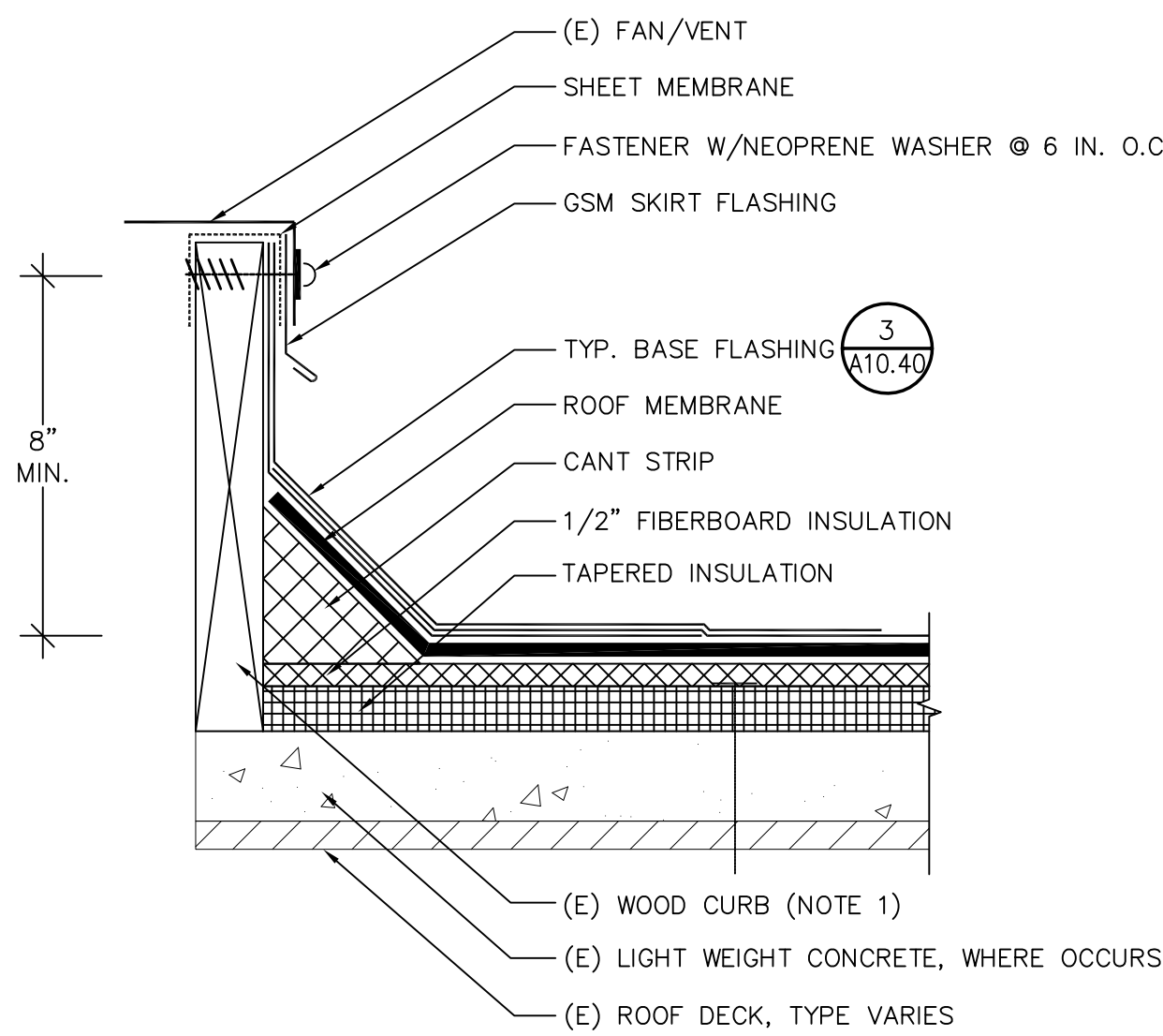
NOTE:
(1) IF (E) FLANGE DOES NOT SATISFY THE DIMENSION LISTED IN THE FLANGE SCHEDULE ON DETAIL 2/A10.40, MECHANICALLY FASTEN AND SOLDER ADDITIONAL PIECE OF SHEET METAL TO ACHIEVE DIMENSION LISTED IN SCHEDULE.

7 FLANGED UNIT-TYPE I
A10.40 SCALE: NOT TO SCALE



NOTES:
(1) MODIFY (E) DUCT AS REQUIRED TO ACCOMMODATE NEW ROOF SYSTEM AND RAISING OF (E) MECHANICAL UNITS.
(2) IF (E) FLANGE DOES NOT SATISFY THE DIMENSION LISTED IN THE FLANGE SCHEDULE ON DETAIL 2/A10.40, MECHANICALLY FASTEN AND SOLDER ADDITIONAL PIECE OF SHEET METAL TO ACHIEVE DIMENSION LISTED IN SCHEDULE.

8 DUCT PENETRATION
A10.40 SCALE: NOT TO SCALE



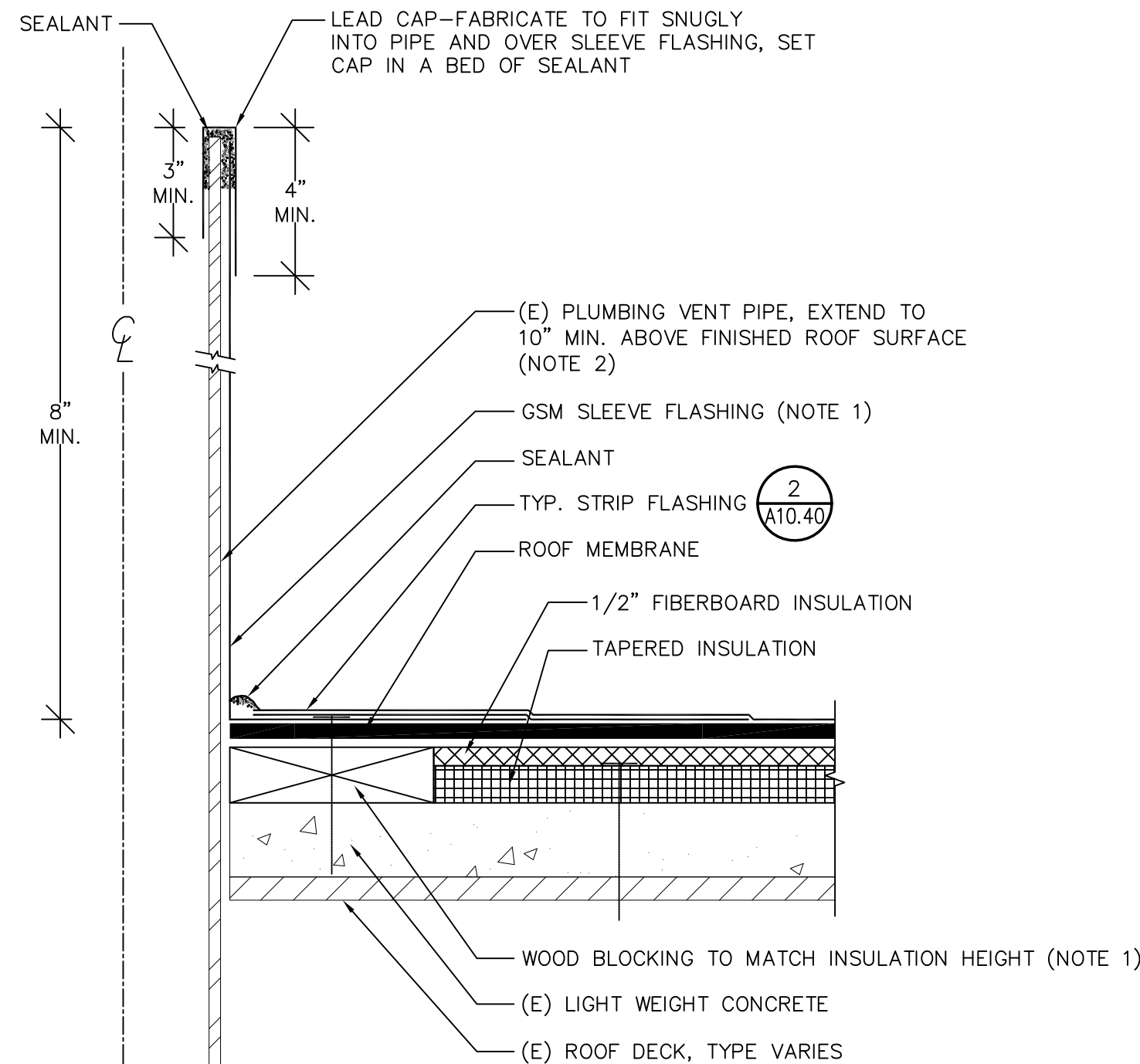
NOTE:
(1) RAISE (E) WOOD CURB AND (E) FAN/VENT AS REQUIRED TO ACHIEVE THE SHOWN MINIMUM BASE FLASHING HEIGHT. REFER TO 4/A10.40 FOR FASTENING INFORMATION.

9 VENT/FAN CURB-TYPE I
A10.40 SCALE: NOT TO SCALE

FASTENING SCHEDULE		
ITEM	FASTENER & SPACING	COMMENTS
BLOCKING/ROOF DECK	16d @ 12" o.c.	NOTE 2
BLOCKING/METAL ROOF DECK	SCREWS @ 12" o.c.	-
BLOCKING/BLOCKING (PERPENDICULAR)	A34 @ 12" o.c.	NOTE 1
BLOCKING/BLOCKING (PARALLEL)	16d @ 12" o.c.	NOTE 2
BLOCKING/BLOCKING (STACKED)	TP35 @ 16" o.c.	NOTE 1
BLOCKING/STEEL BEAM	1/2" @ BOLTS @ 4" o.c.	-
BLOCKING/CONCRETE WALL	CONC. FASTENERS @ 16" o.c.	NOTE 2
CHAMFERED BLOCK/BLOCKING	16d @ 12" o.c.	NOTE 2
ROOF SHEATHING (PLYWOOD)	NOTE 4	NOTE 4
ROOF SHEATHING (DECKING)	NOTE 4	NOTE 4
FASCIA/FASCIA NAILER	16d @ 12" o.c.	NOTE 2
FASCIA/RAFTER END	(2) 16d PER RAFTER	NOTE 2

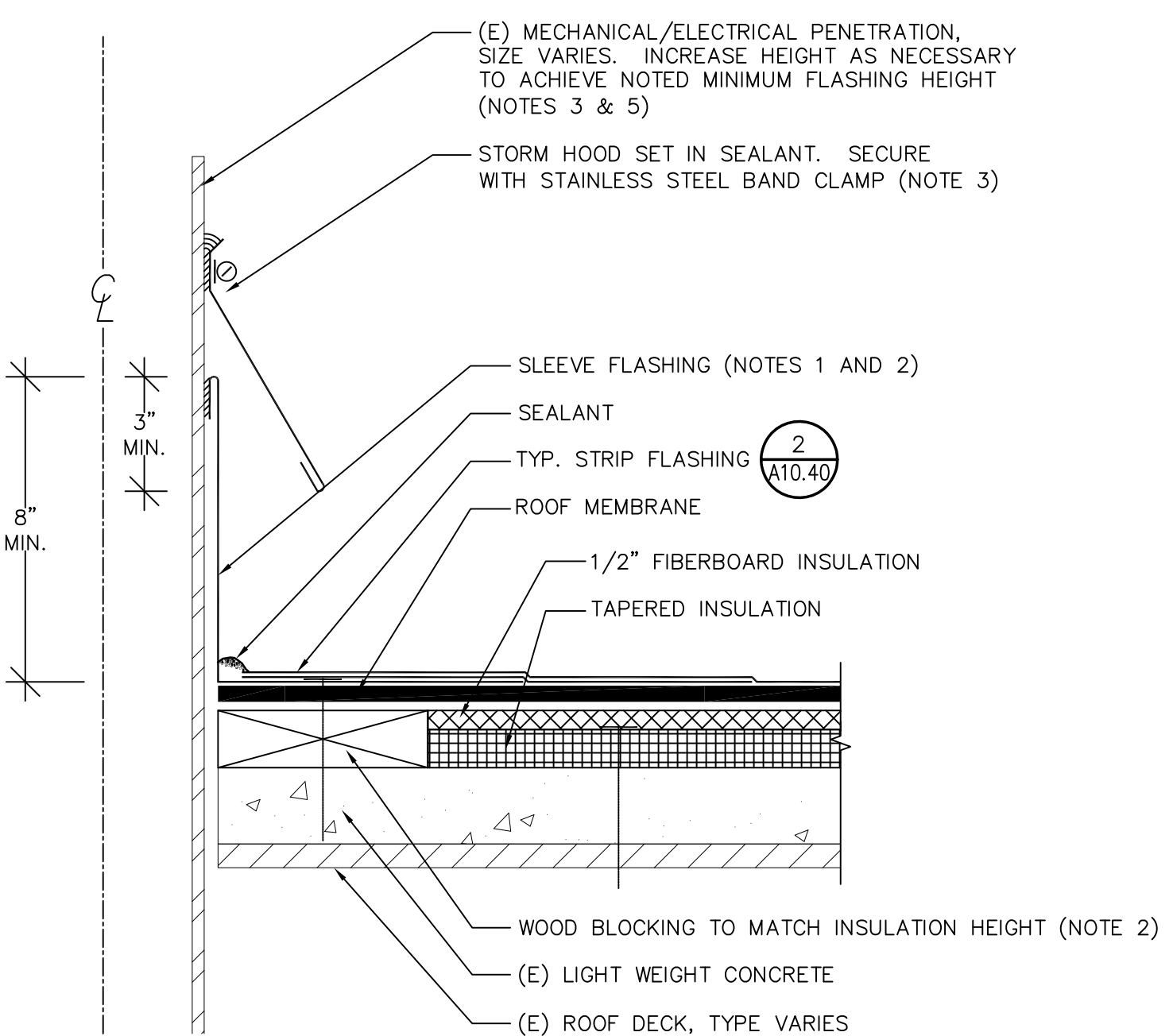
NOTES:
(1) FOR A34 AND TP 35 PLATES, USE SIMPSON N8 NAILS OR #8 X 1: WOOD SCREWS.
(2) USE FULL LENGTH COMMON WIRE NAILS.
(3) REFER TO PROJECT SPECIFICATIONS FOR DETAILED MATERIAL AND WORKMANSHIP REQUIREMENTS.
(4) REFER TO STRUCTURAL DRAWINGS FOR ROOF DECK REPLACEMENT AND OVERLAY INFORMATION.

4 TYPICAL FASTENER SCHEDULE
A10.40 SCALE: NOT TO SCALE



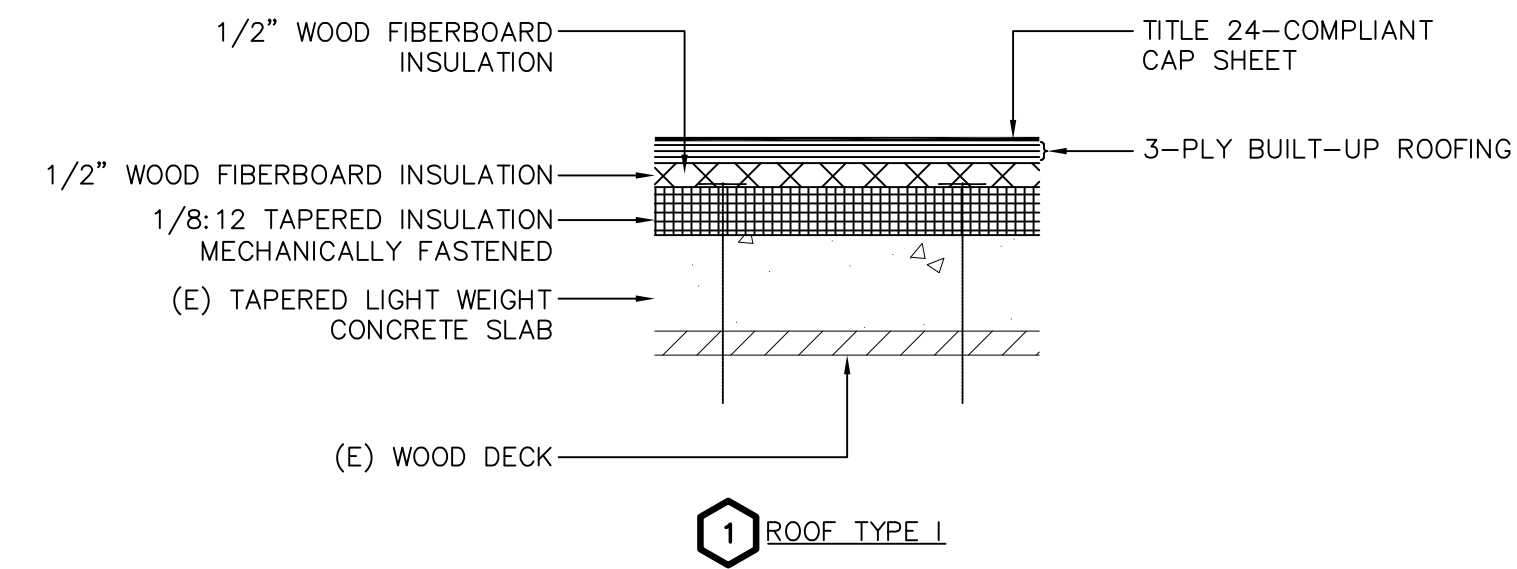
NOTE:
(1) WOOD BLOCKING AND FLANGE NAILING MAY BE OMITTED IF LEAD SLEEVE FLASHING IS USED.

5 VENT PIPE
A10.40 SCALE: NOT TO SCALE

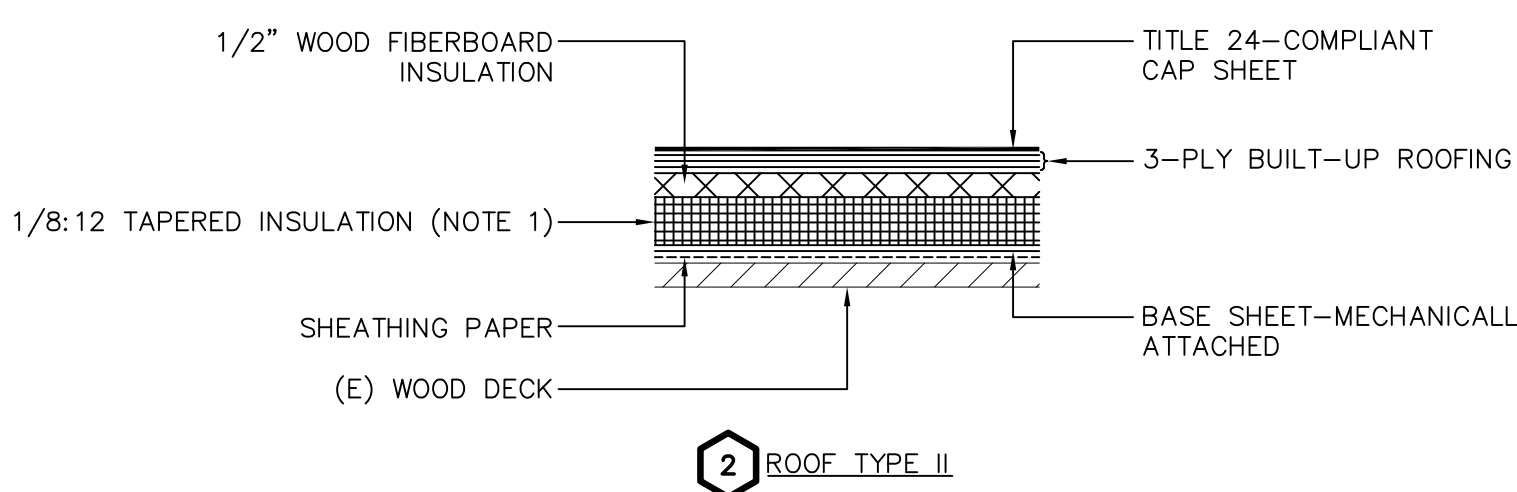


NOTES:
(1) IF (E) FLANGE DOES NOT SATISFY THE DIMENSION LISTED IN THE FLANGE SCHEDULE ON DETAIL 2/A10.40, MECHANICALLY FASTEN AND SOLDER ADDITIONAL PIECE OF SHEET METAL TO ACHIEVE DIMENSION LISTED IN SCHEDULE.
(2) WOOD BLOCKING AND FLANGE NAILING MAY BE OMITTED IF LEAD SLEEVE FLASHING IS USED.
(3) IF LEAD STORM HOOD IS USED, SOLDER VERTICAL LAP JOINTS.
(4) USE HIGH TEMPERATURE SEALANT AT HOT STACKS.
(5) EXTEND PIPE USING NO-HUB CONNECTION BELOW ROOF DECK.
(6) THE FLASHING SHOWN ON THIS DETAIL SUPERSEDES THE FLASHING SHOWN ON 2 AND 4/E6.1.

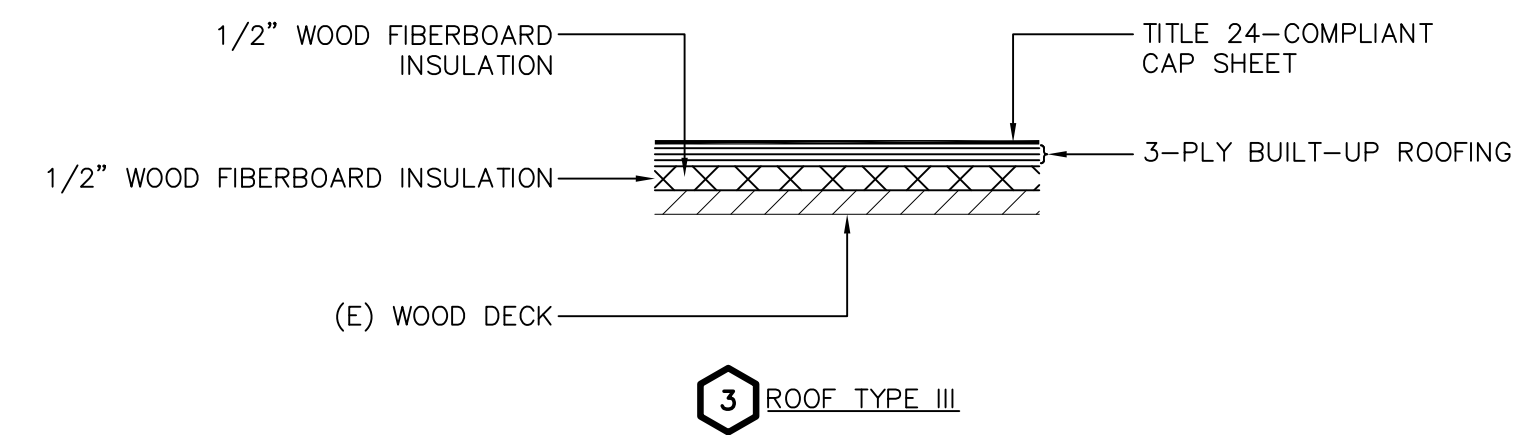
6 ELECTRICAL/MECHANICAL PIPE
A10.40 SCALE: NOT TO SCALE



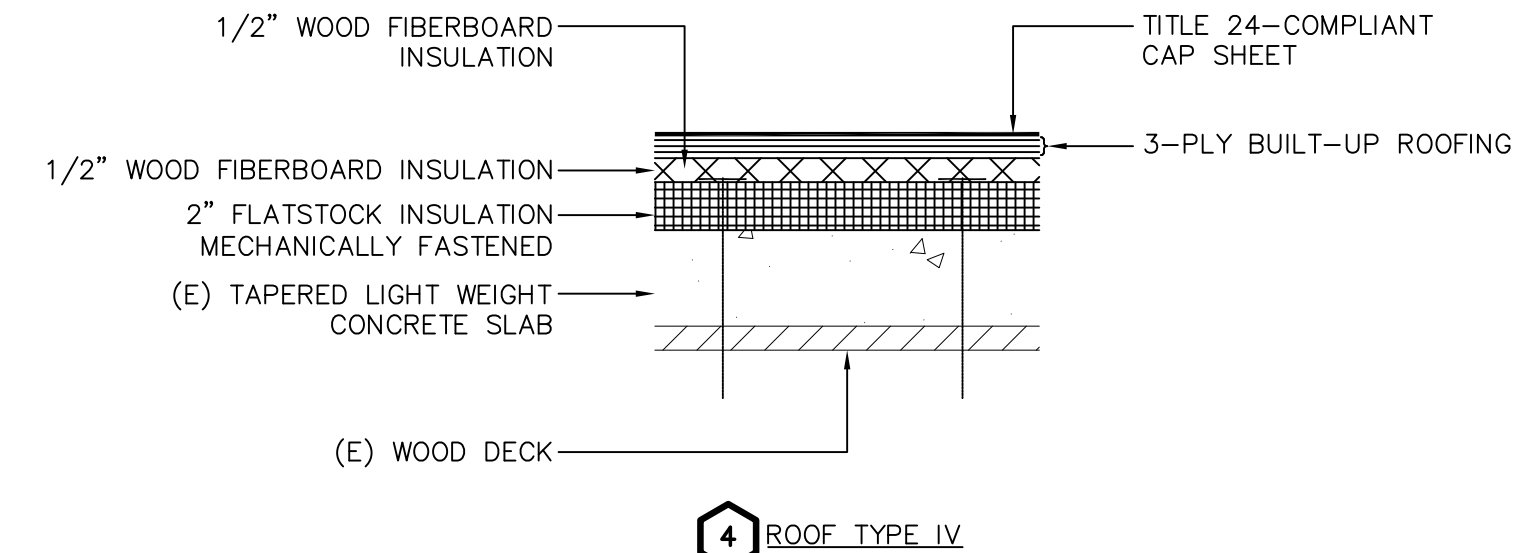
1 ROOF TYPE I



2 ROOF TYPE II



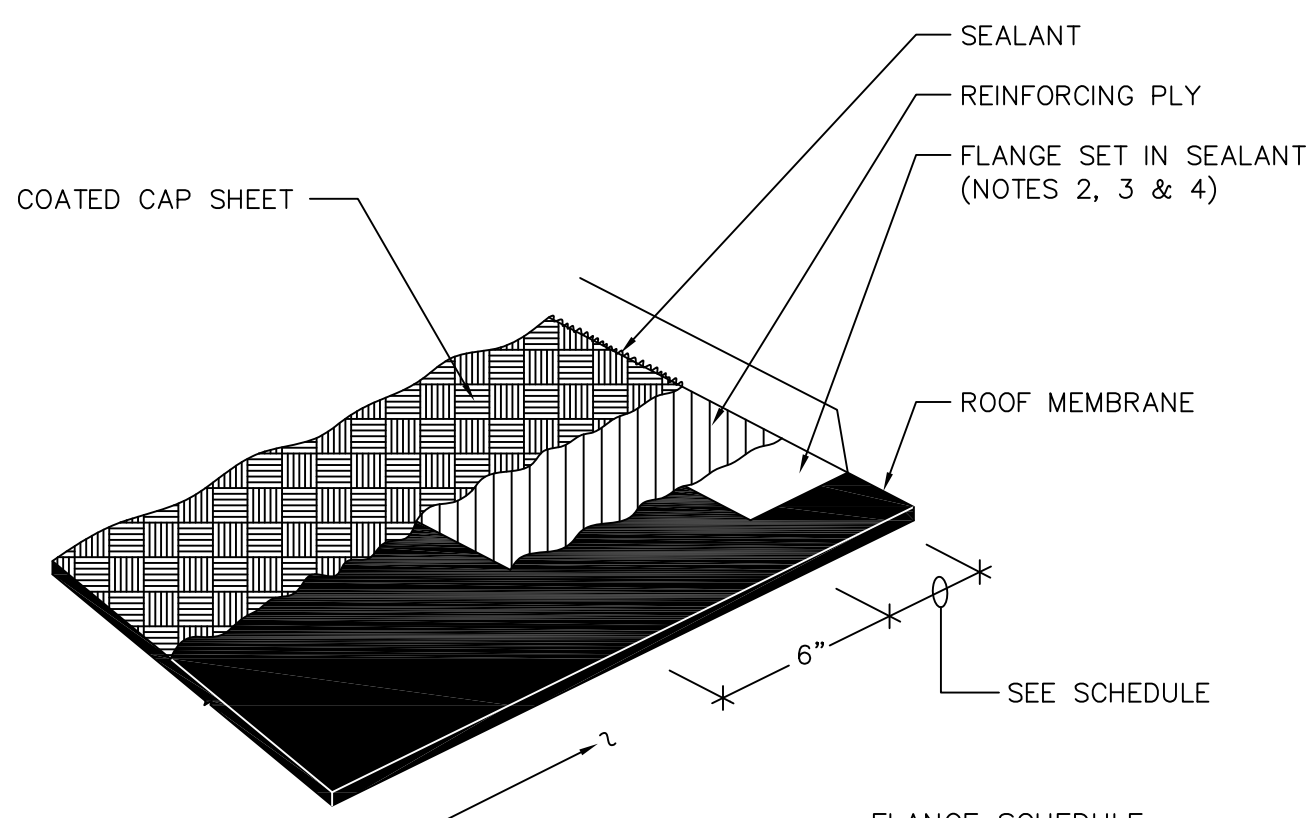
3 ROOF TYPE III



4 ROOF TYPE IV

NOTES:
(1) CLASS A FIRE RATED ROOF SYSTEM.
(2) CAP SHEET CRRC. PRODUCT ID SHALL BE 0676-0021 OR APPROVED EQUAL.
(3) REFER TO SPECIFICATIONS FOR PRODUCT INFORMATION.

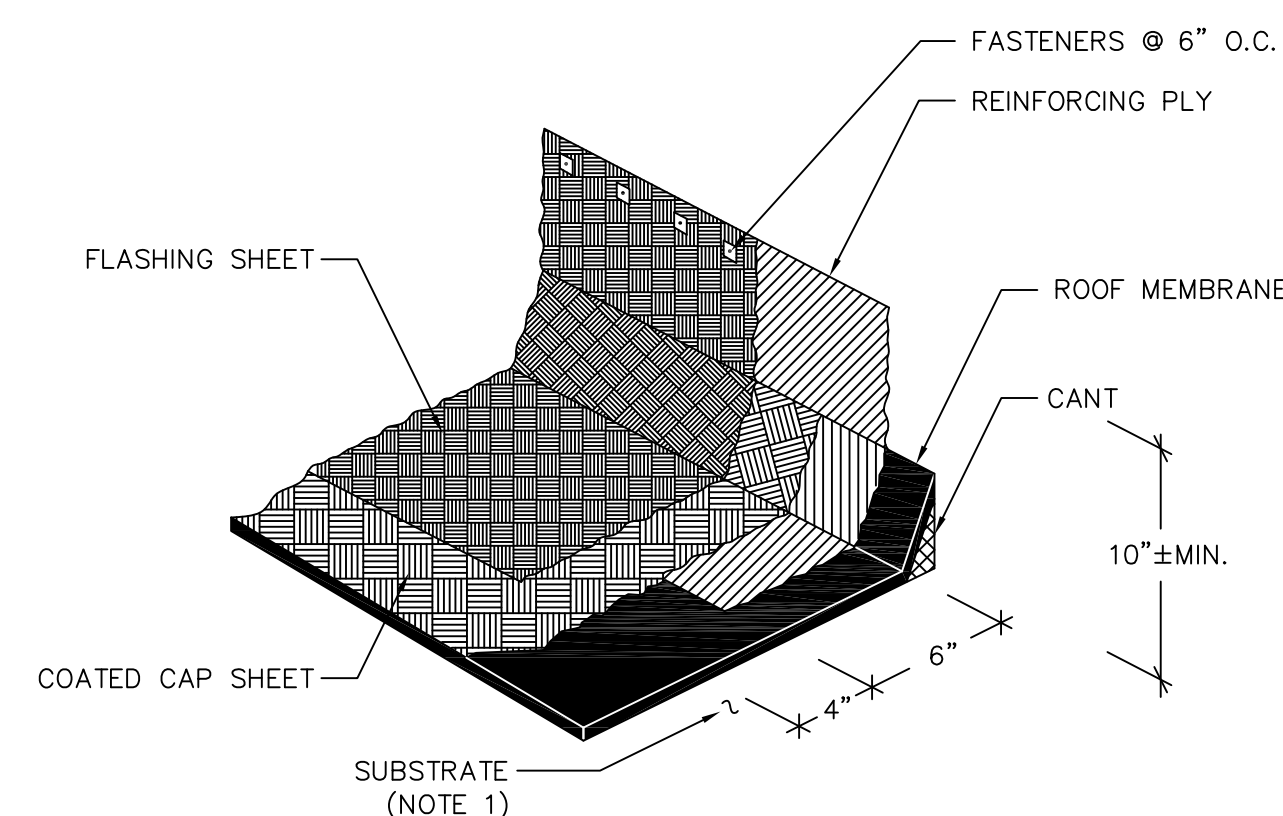
1 ROOF TYPES
A10.40 SCALE: NOT TO SCALE



FLANGE SCHEDULE	
ITEM	DIMENSION
EDGE	4"
FLANGED UNIT	8"
PIPE & ELECTRICAL PENETRATIONS	8"

NOTES:
(1) REFER TO ROOF PLANS FOR SUBSTRATE TYPE.
(2) FLANGE NAILING IS NOT SHOWN FOR CLARITY.
(3) APPLY PRIMER TO TOP AND BOTTOM AND SET IN SEALANT.
(4) FASTENERS AT 3" O.C.

2 TYPICAL STRIP FLASHING
A10.40 SCALE: NOT TO SCALE



NOTE:
(1) REFER TO ROOF PLANS FOR SUBSTRATE TYPE.

3 TYPICAL BASE FLASHING
A10.40 SCALE: NOT TO SCALE



Gale Associates, Inc.
Engineers and Planners
2570 W. El Camino Real | Suite 320
Mountain View, Ca 94040
P 650.941.1112 F 650.941.1154 www.gainc.com
Boston Baltimore Orlando San Francisco

This drawing and the design and construction features disclosed are proprietary to Gale Associates, Inc. and shall not be altered or reused in whole or part without the express written permission of Gale Associates, Inc. Copyright©2013



PROJECT
ROOF REPLACEMENT
PHYSICAL SCIENCES BUILDING
CONTRA COSTA COLLEGE
2600 MISSION BELL DRIVE, SAN PABLO, CALIFORNIA
OWNER
CONTRA COSTA COMMUNITY COLLEGE DISTRICT
500 COURT STREET
MARTINEZ, CALIFORNIA
AS-BUILT SET

NO.	DATE	DESCRIPTION	BY
	1/7/15	AS-BUILT SET	EY
	6/6/14	REVISED BID SET	EY
	2/25/14	BID SET	EY
	2/6/14	90% REVIEW SET	EY

PROJECT NO.	694710
CADD FILE	
DESIGNED BY	AEB
DRAWN BY	EY
CHECKED BY	AEB
DATE	18 DEC 2013
DRAWING SCALE	AS NOTED

SHEET TITLE
ROOFING
DETAILS
1 TO 12

DRAWING NO.
A10.40
OF



PROJECT
ROOF REPLACEMENT
PHYSICAL SCIENCES BUILDING
CONTRA COSTA COLLEGE
2600 MISSION BELL DRIVE, SAN PABLO, CALIFORNIA
OWNER
CONTRA COSTA COMMUNITY COLLEGE DISTRICT
500 COURT STREET
MARTINEZ, CALIFORNIA

AS-BUILT SET

NO.	DATE	DESCRIPTION	BY
	1/7/15	AS-BUILT SET	EY
	6/6/14	REVISED BID SET	EY
	2/25/14	BID SET	EY
	2/6/14	90% REVIEW SET	EY

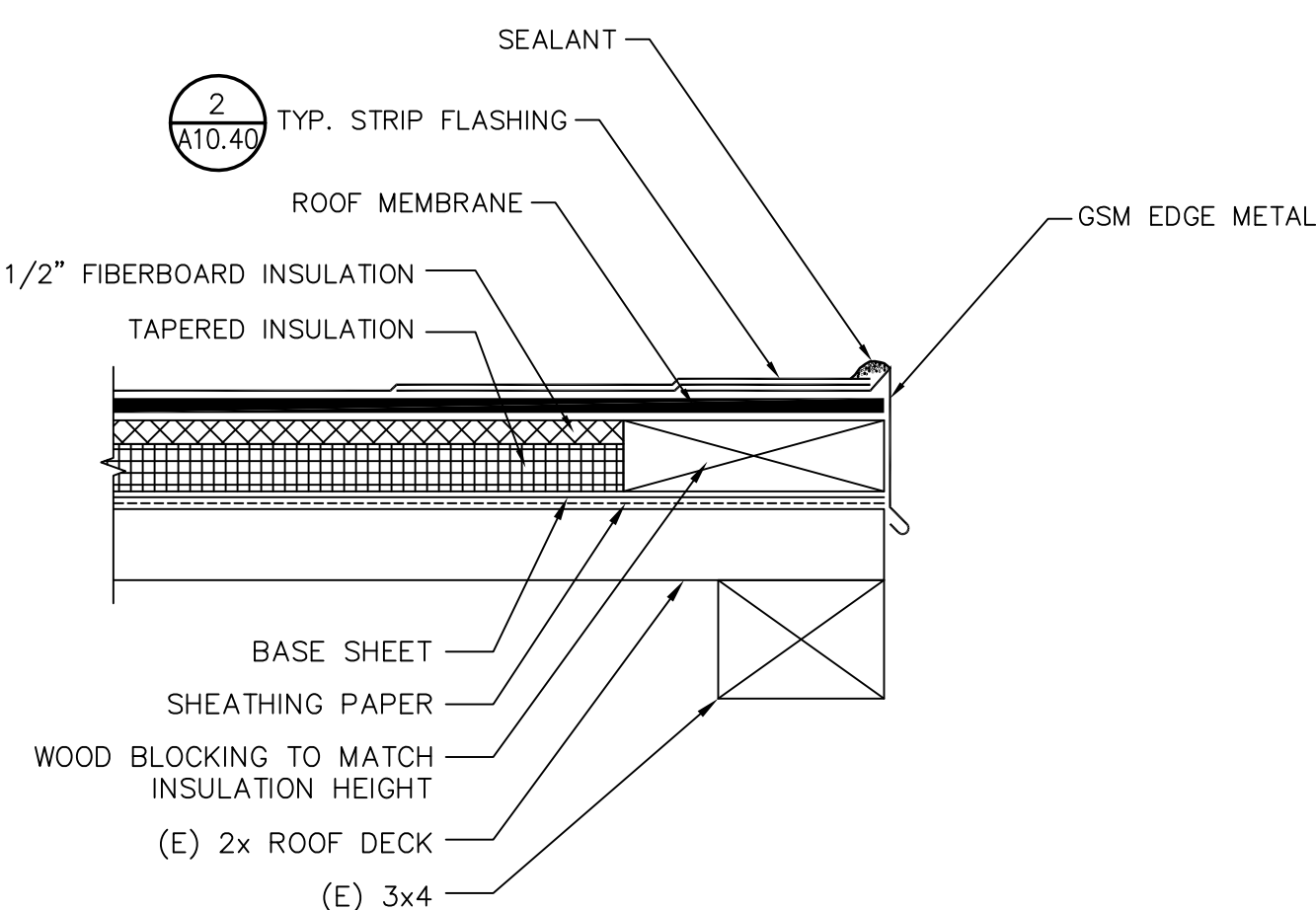
PROJECT NO.	694710
CADD FILE	
DESIGNED BY	AEB
DRAWN BY	EY
CHECKED BY	AEB
DATE	18 DEC 2013
DRAWING SCALE	AS NOTED

ROOFING
DETAILS
12 TO 24

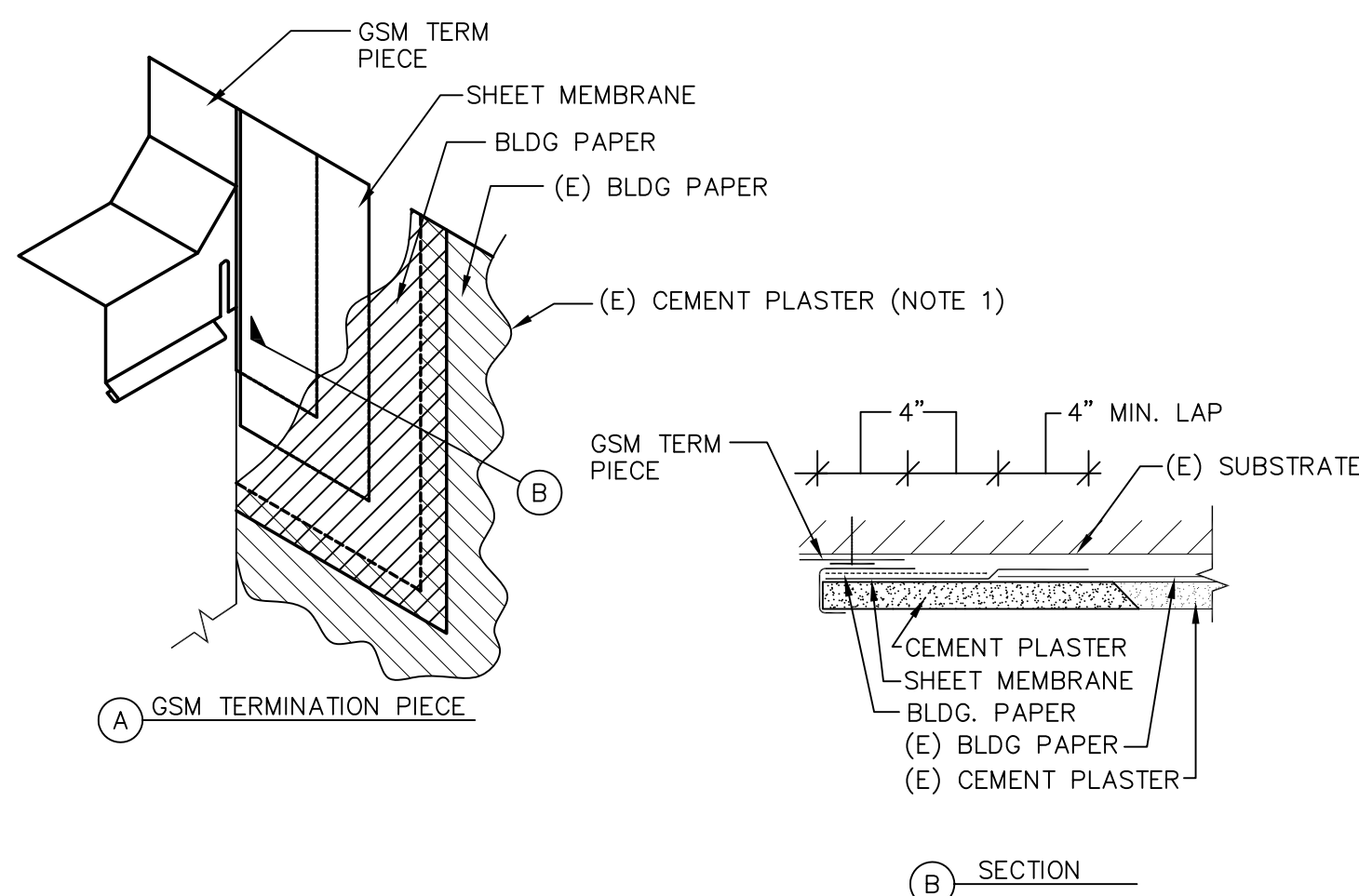
DRAWING NO.

A10.41

OF

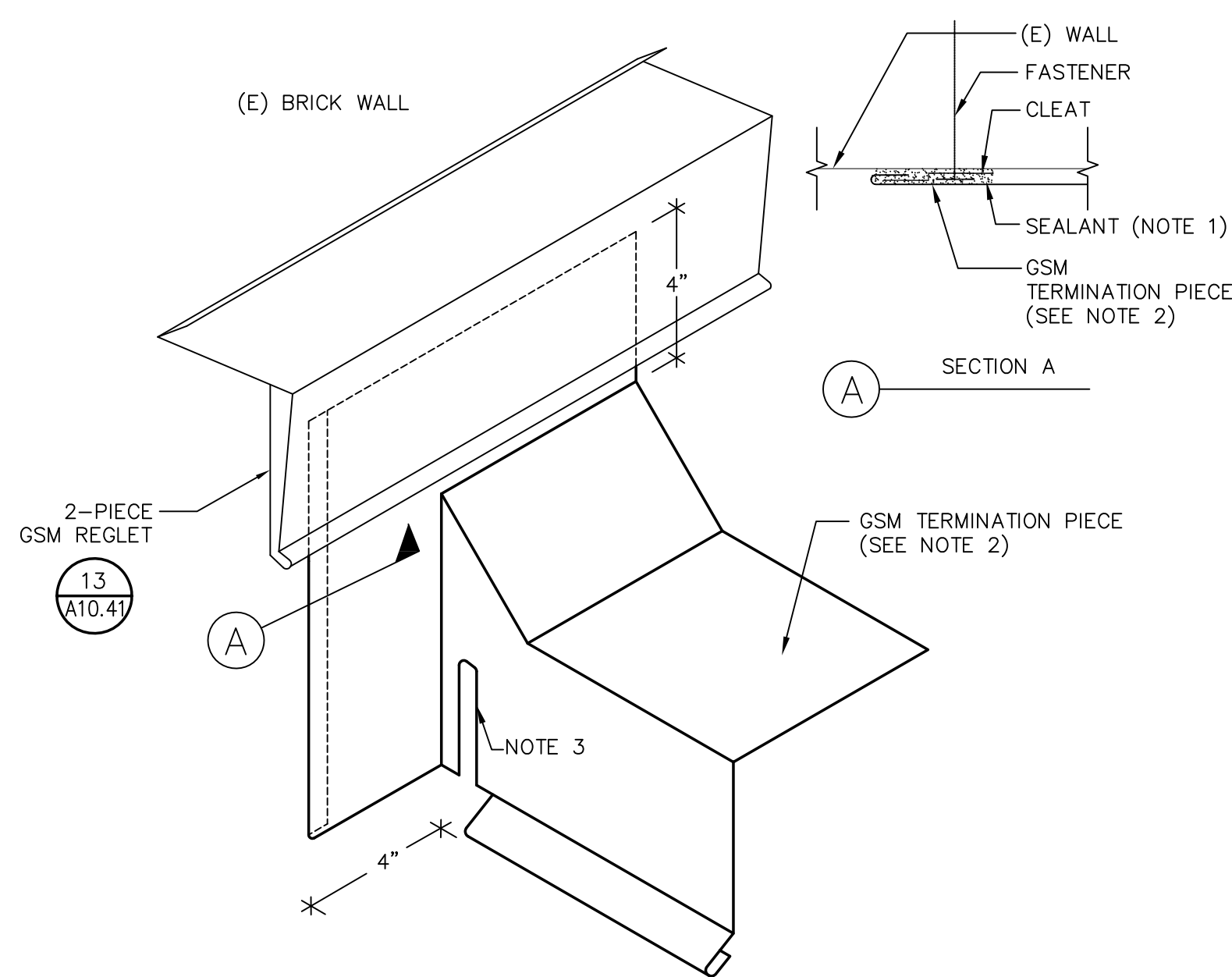


22 ROOF TO WALL-TYPE III
A10.41 SCALE: NOT TO SCALE



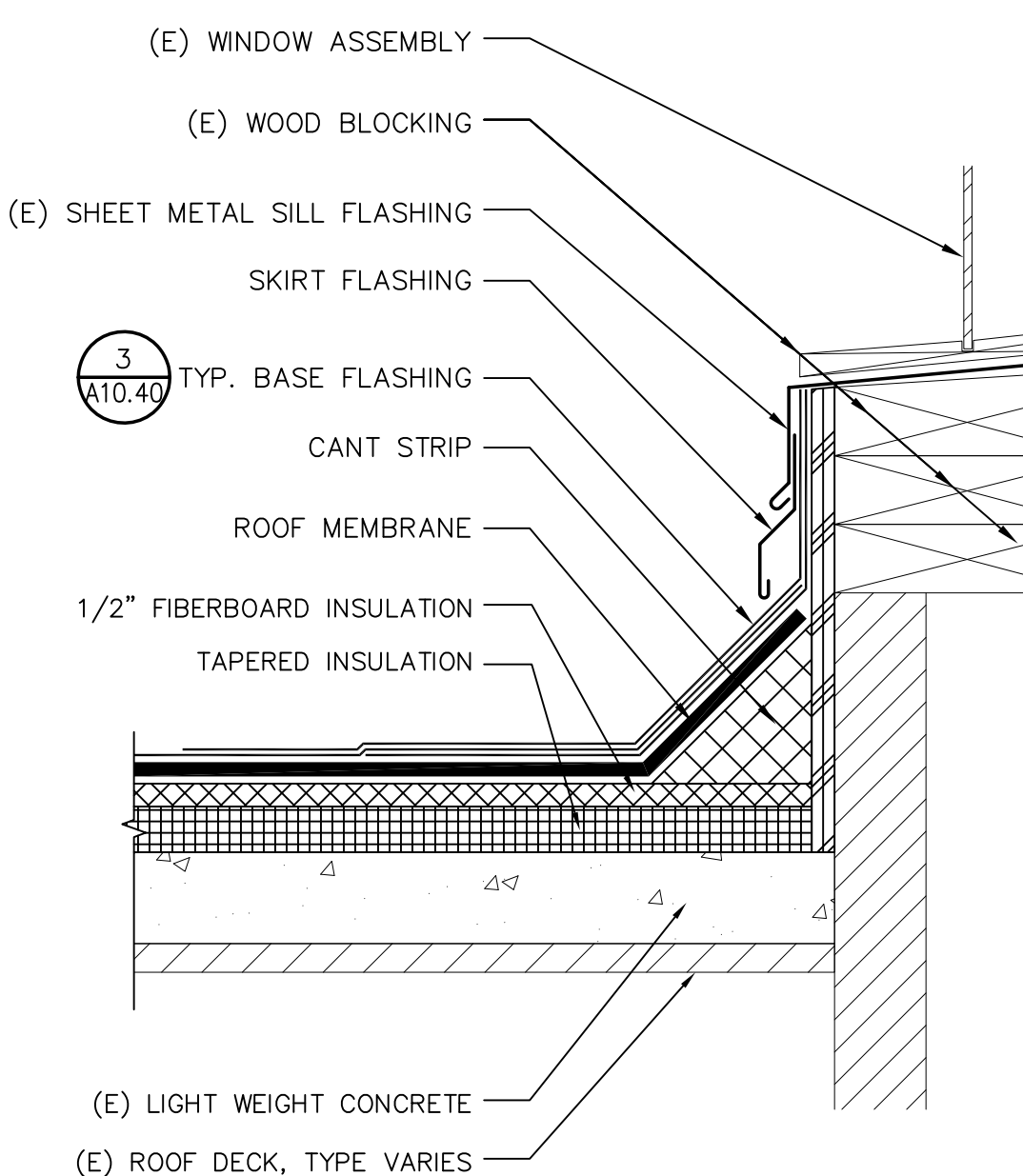
NOTE:
(1) REMOVE (E) CEMENT PLASTER.

23 WALL EDGE METAL-TYPE II
A10.41 SCALE: NOT TO SCALE

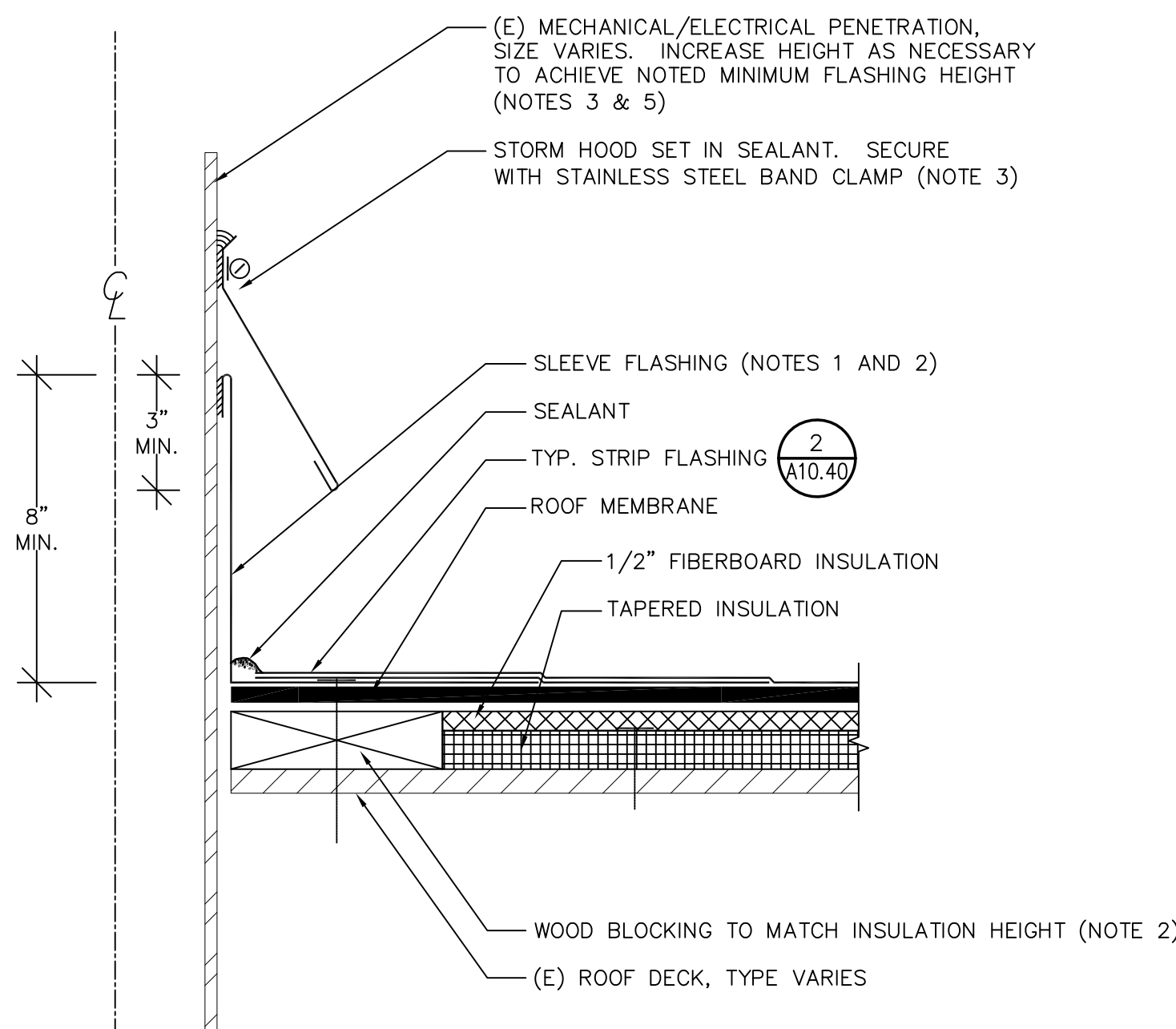


NOTES:
(1) INSTALL SEALANT BEFORE AND AFTER INSTALLING CLEAT.
(2) PROVIDE TRANSITION PIECE AT ROOF TO WALL CORNER INTERSECTION.
(3) NOTCH OUT EDGE PIECE FOR GUTTER EDGE.
(4) PROVIDE CORNER AND TERMINATION PIECES AND SOLDER WATER TIGHT.

24 EDGE METAL-TYPE I
A10.41 SCALE: NOT TO SCALE

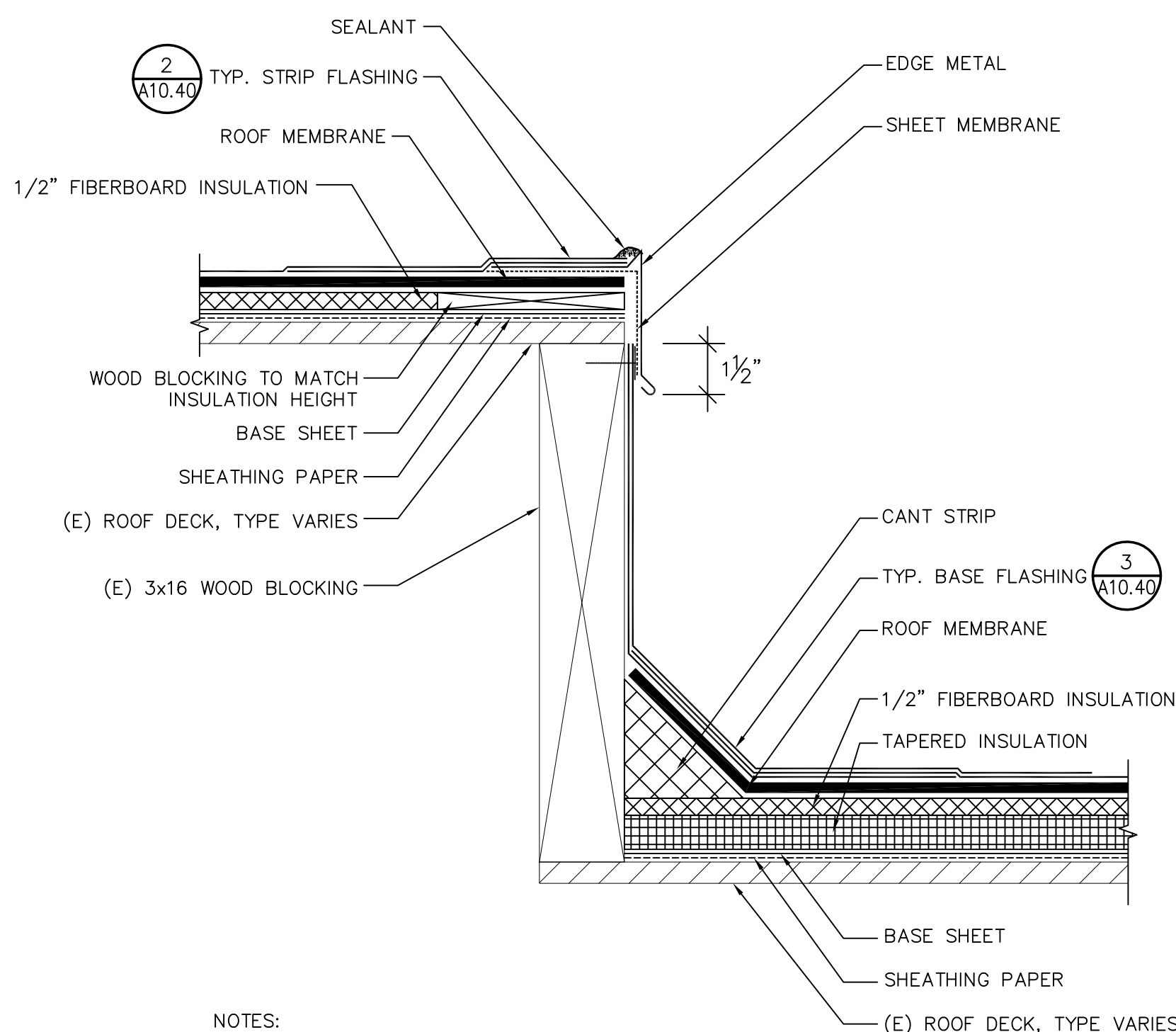


19 ROOF TO WINDOW TRANSITION
A10.41 SCALE: NOT TO SCALE



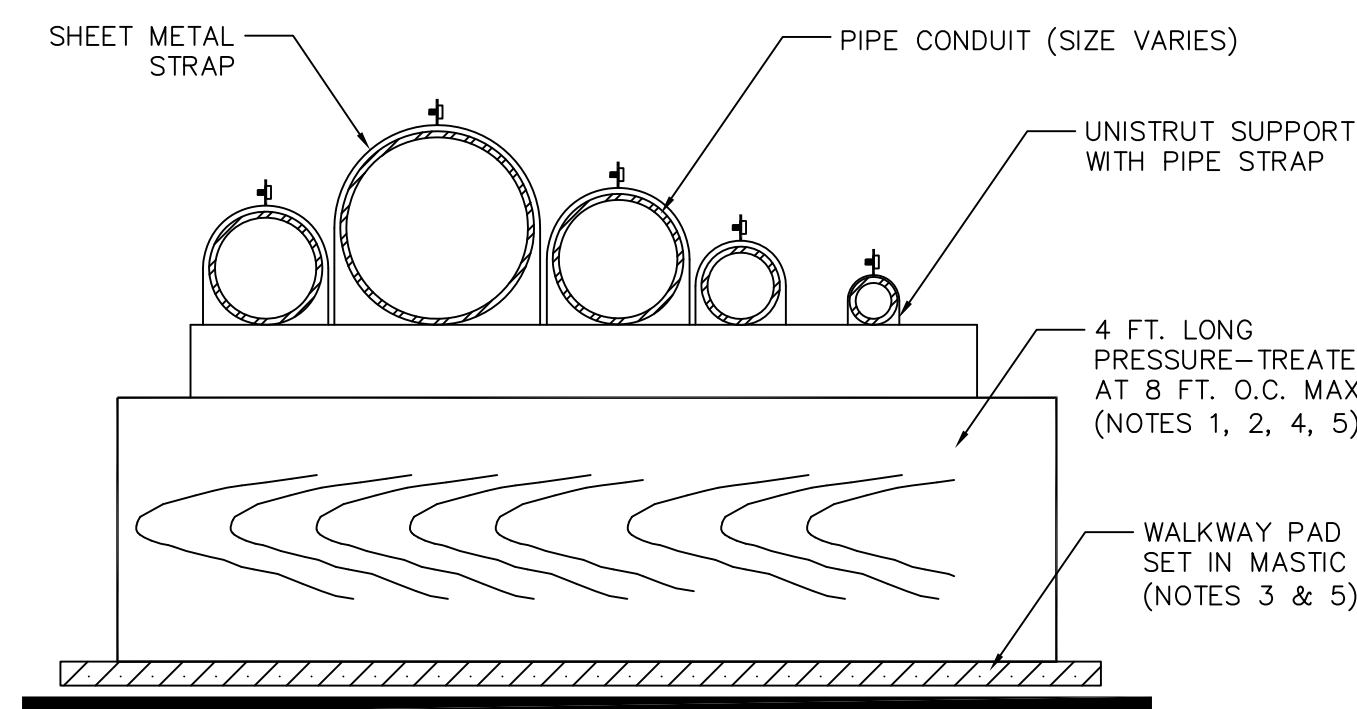
NOTES:
(1) IF (E) FLANGE DOES NOT SATISFY THE DIMENSION LISTED IN THE FLANGE SCHEDULE ON DETAIL 2/A10.40, MECHANICALLY FASTEN AND SOLDER ADDITIONAL PIECE OF SHEET METAL TO ACHIEVE DIMENSION LISTED IN SCHEDULE.
(2) WOOD BLOCKING AND FLANGE NAILING MAY BE OMITTED IF LEAD SLEEVE FLASHING IS USED.
(3) IF LEAD STORM HOOD IS USED, SOLDER VERTICAL LAP JOINTS.
(4) USE HIGH TEMPERATURE SEALANT AT HOT STACKS.
(5) EXTEND PIPE USING NO-HUB CONNECTION BELOW ROOF DECK.
(6) THE FLASHING SHOWN ON THIS DETAIL SUPERSEDES THE FLASHING SHOWN ON 2 AND 4/E6.1.

20 ELECTRICAL/MECHANICAL PIPE
A10.41 SCALE: NOT TO SCALE



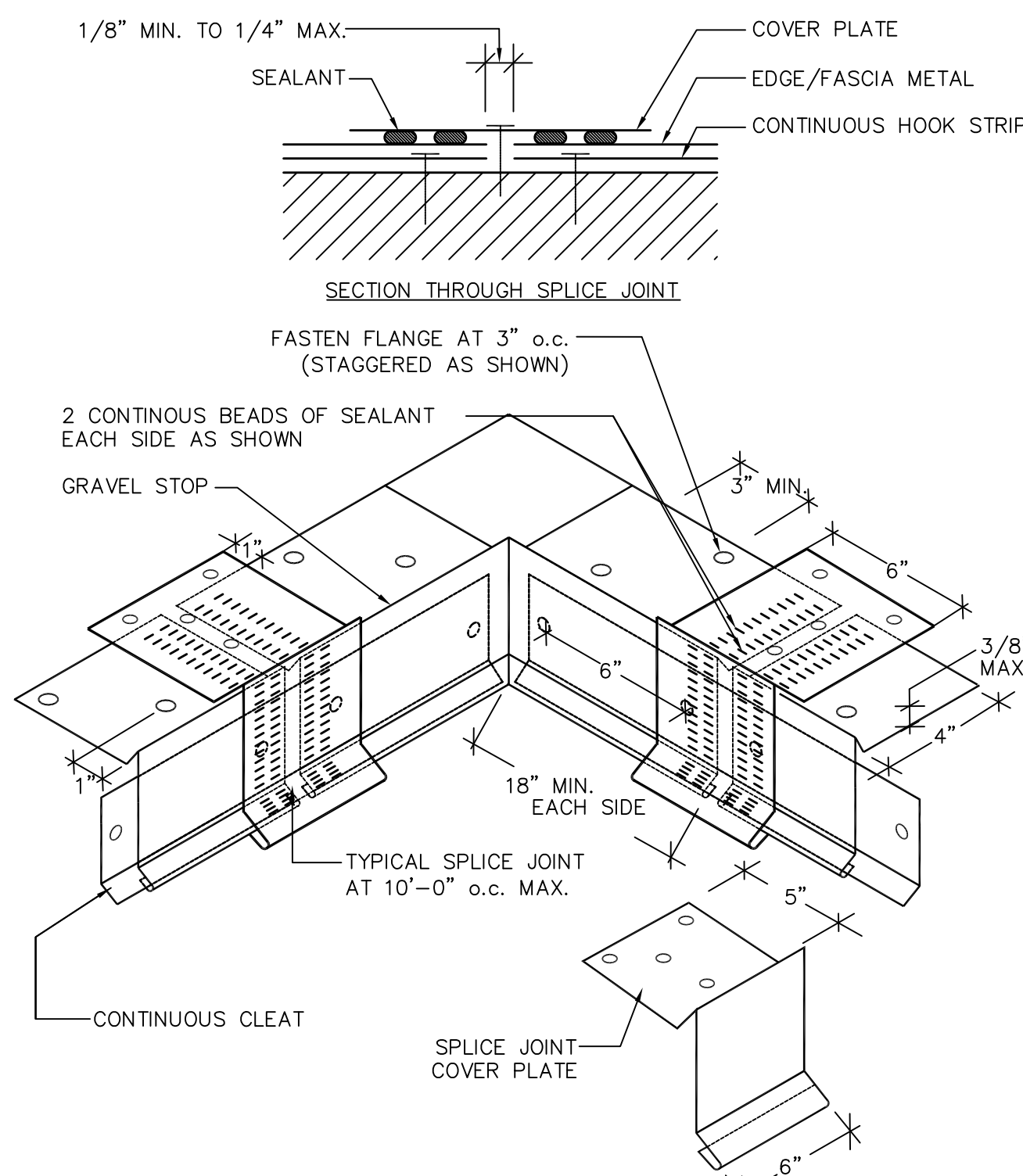
NOTES:
(1) SECURE GSM CAP.
(2) FIELD VERIFY DIMENSION PRIOR TO FABRICATION.

21 ROOF TRANSITION
A10.41 SCALE: NOT TO SCALE



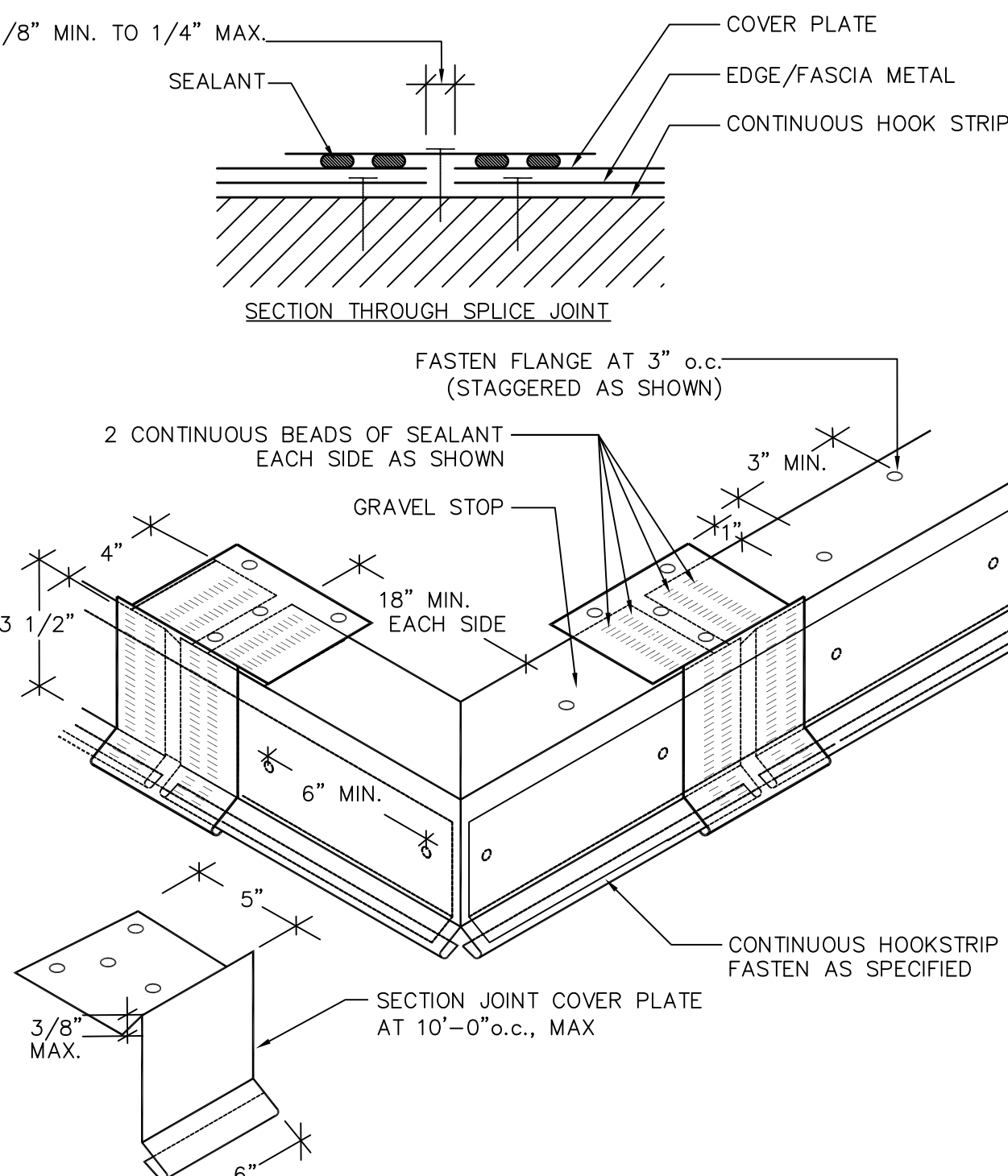
NOTES:
(1) TREAT CUT ENDS OF BLOCKING WITH PRESERVATIVE.
(2) PROVIDE SLEEPER WHERE CONDUIT CHANGES DIRECTION.
(3) SIZE PAD 2 IN. GREATER IN LENGTH AND WIDTH THAN BLOCKING.
(4) SIZE SLEEPER TO ACCOMMODATE PIES(S)/CONDUIT(S). MINIMUM LENGTH SHALL BE 12 IN. LENGTH FOR MULTI-CONDUITS SHALL BE 4 FT.
(5) SET WOOD BLKG. IN MASTIC; SET EVERY THIRD WALKPAD IN MASTIC.
(6) REFER TO MECHANICAL DRAWINGS FOR SLEEPER SPACING AND LAYOUT INFORMATION.

16 SLEEPER CURB
A10.41 SCALE: NOT TO SCALE



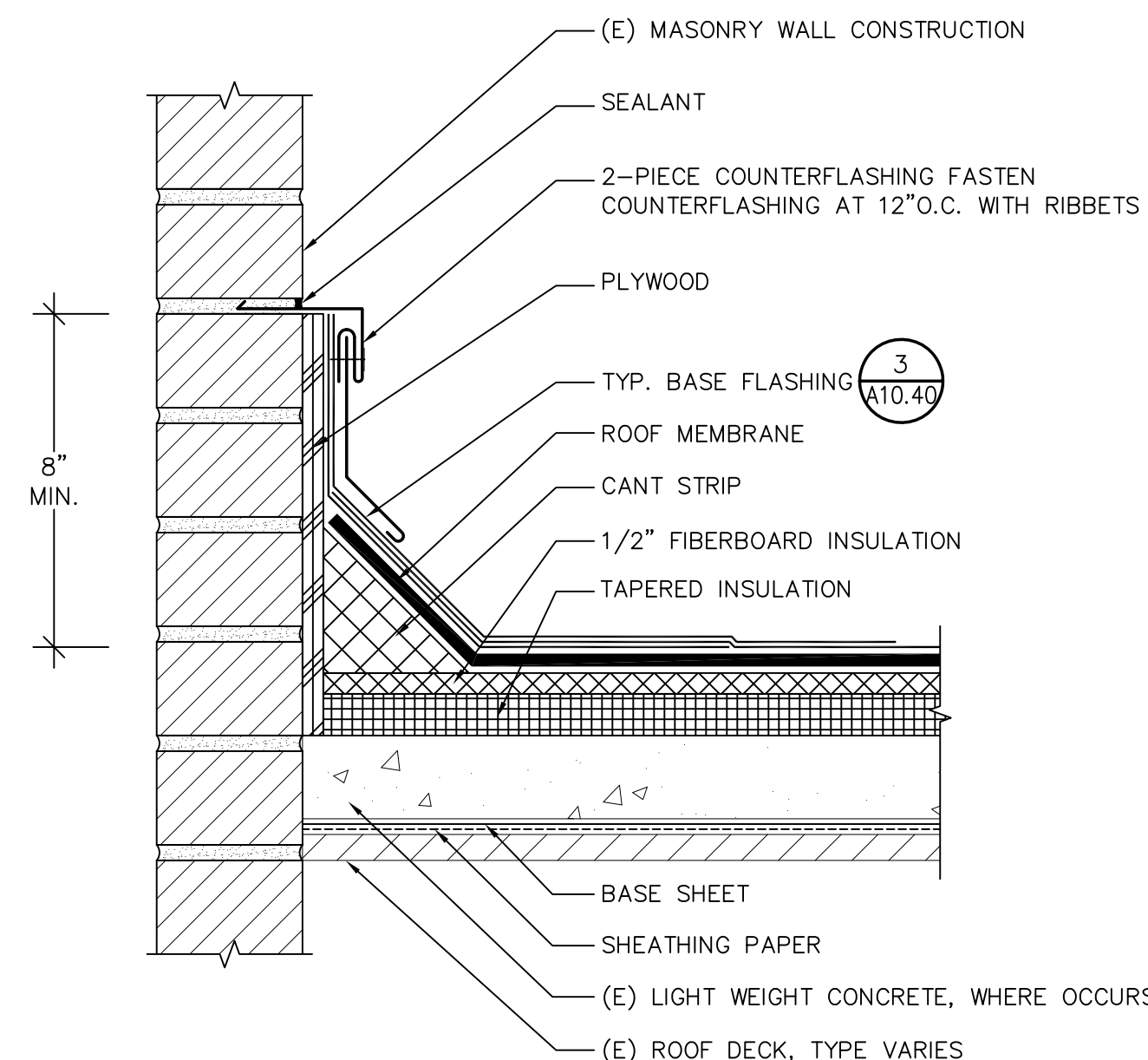
NOTES:
(1) MECHANICALLY FASTEN AND SOLDER CORNER INSERTS TO FORM CONTINUOUS PIECE.
(2) NOTCH EDGE METAL TO ACCOMMODATE GUTTER, WHERE REQUIRED.
(3) REFER TO ROOF EDGE DETAIL FOR EDGE METAL DETAIL.

17 EDGE METAL INSIDE CORNER
A10.41 SCALE: NOT TO SCALE



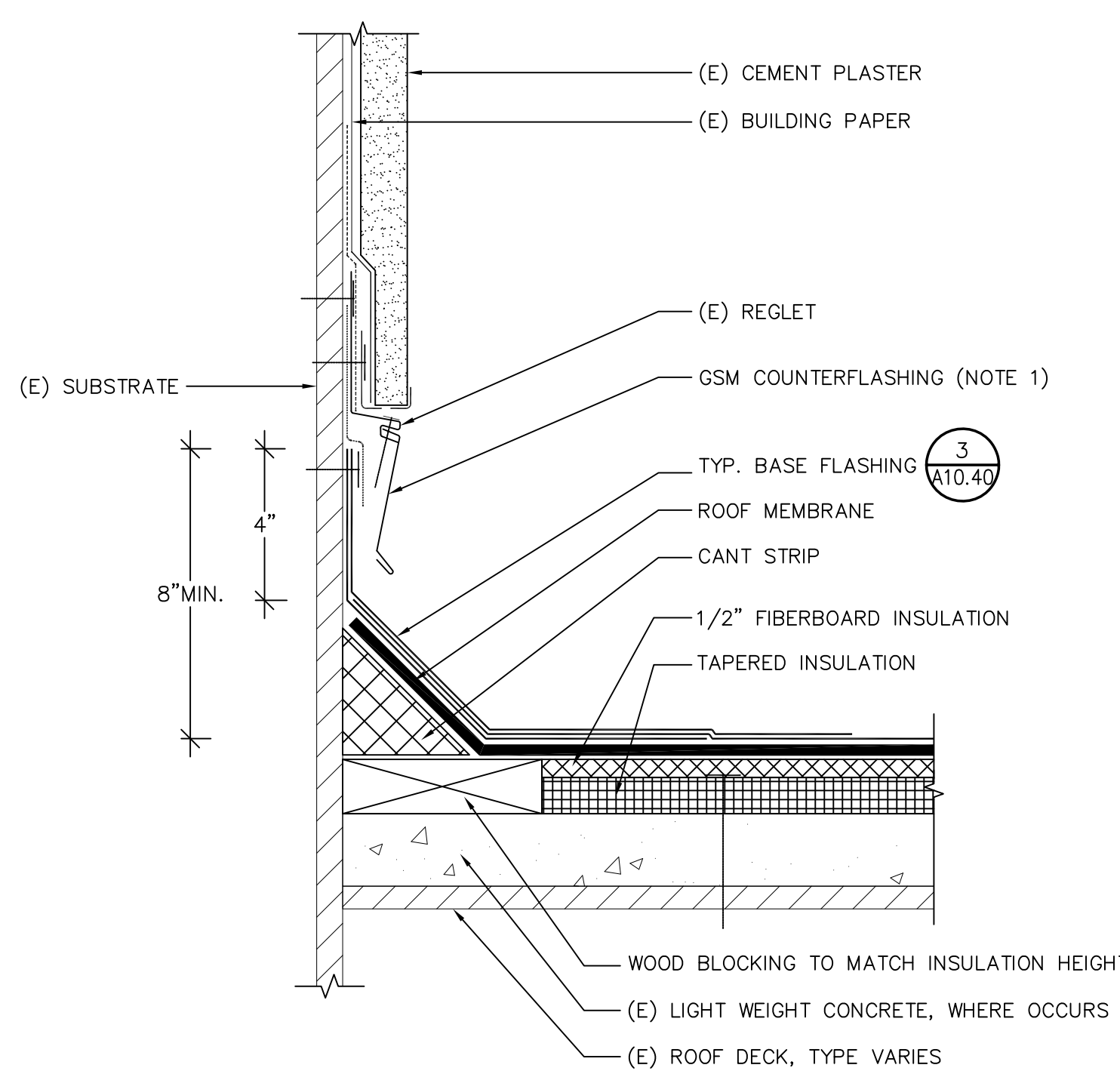
NOTES:
(1) MECHANICALLY FASTEN AND SOLDER CORNER INSERTS TO FORM CONTINUOUS PIECE.
(2) NOTCH EDGE METAL TO ACCOMMODATE GUTTER, WHERE REQUIRED.
(3) REFER TO ROOF EDGE DETAIL FOR EDGE METAL DETAIL.

18 EDGE METAL OUTSIDE CORNER
A10.41 SCALE: NOT TO SCALE



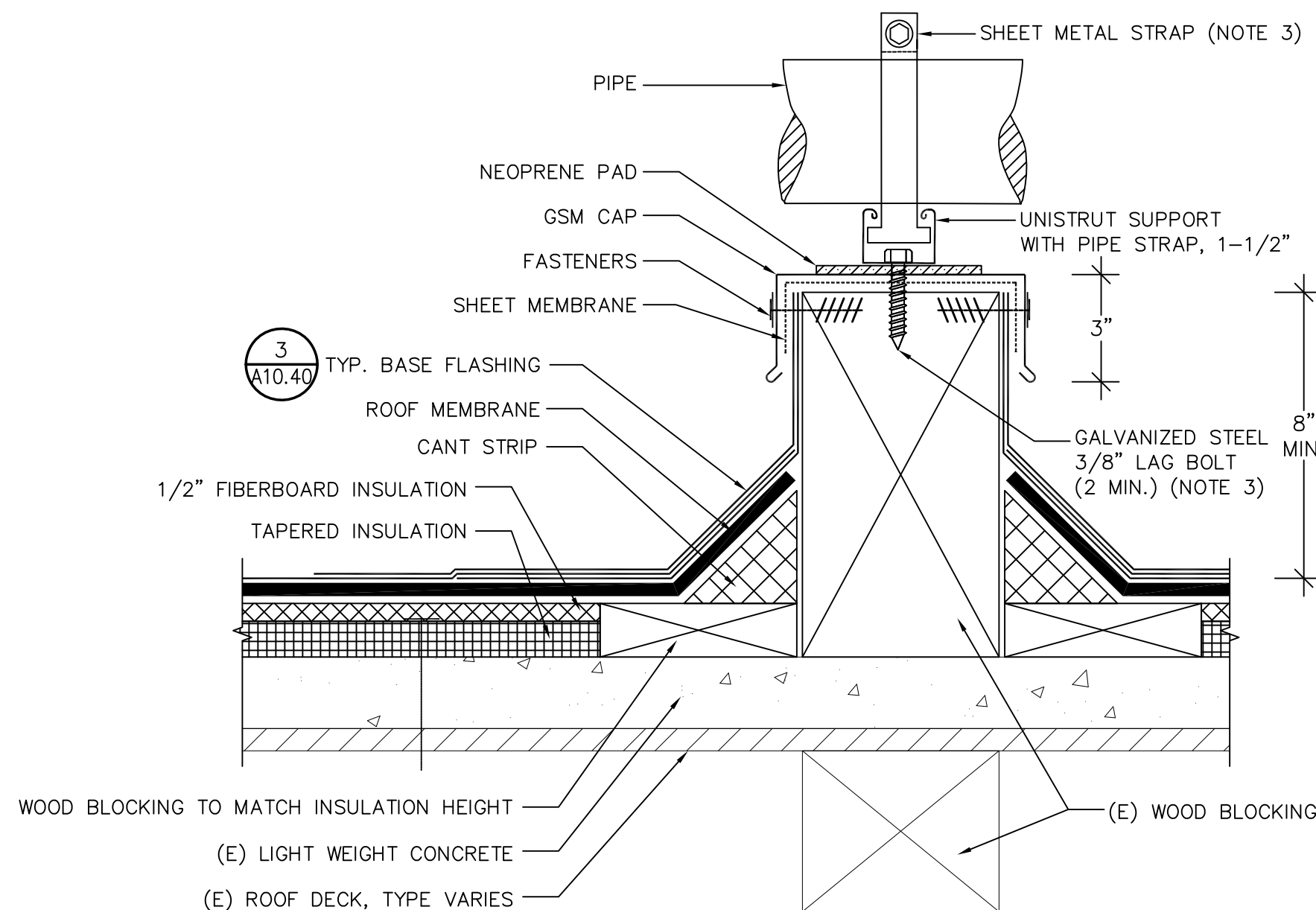
NOTES:
(1) REMOVE (E) COUNTERFLASHING AND CLEAN JOINT TO RECEIVE NEW COUNTERFLASHING.
(2) PROVIDE COUNTERFLASHING END CAPS WITH MECHANICALLY FASTENED AND SOLDERED JOINTS.

13 ROOF TO WALL-TYPE I
A10.41 SCALE: NOT TO SCALE



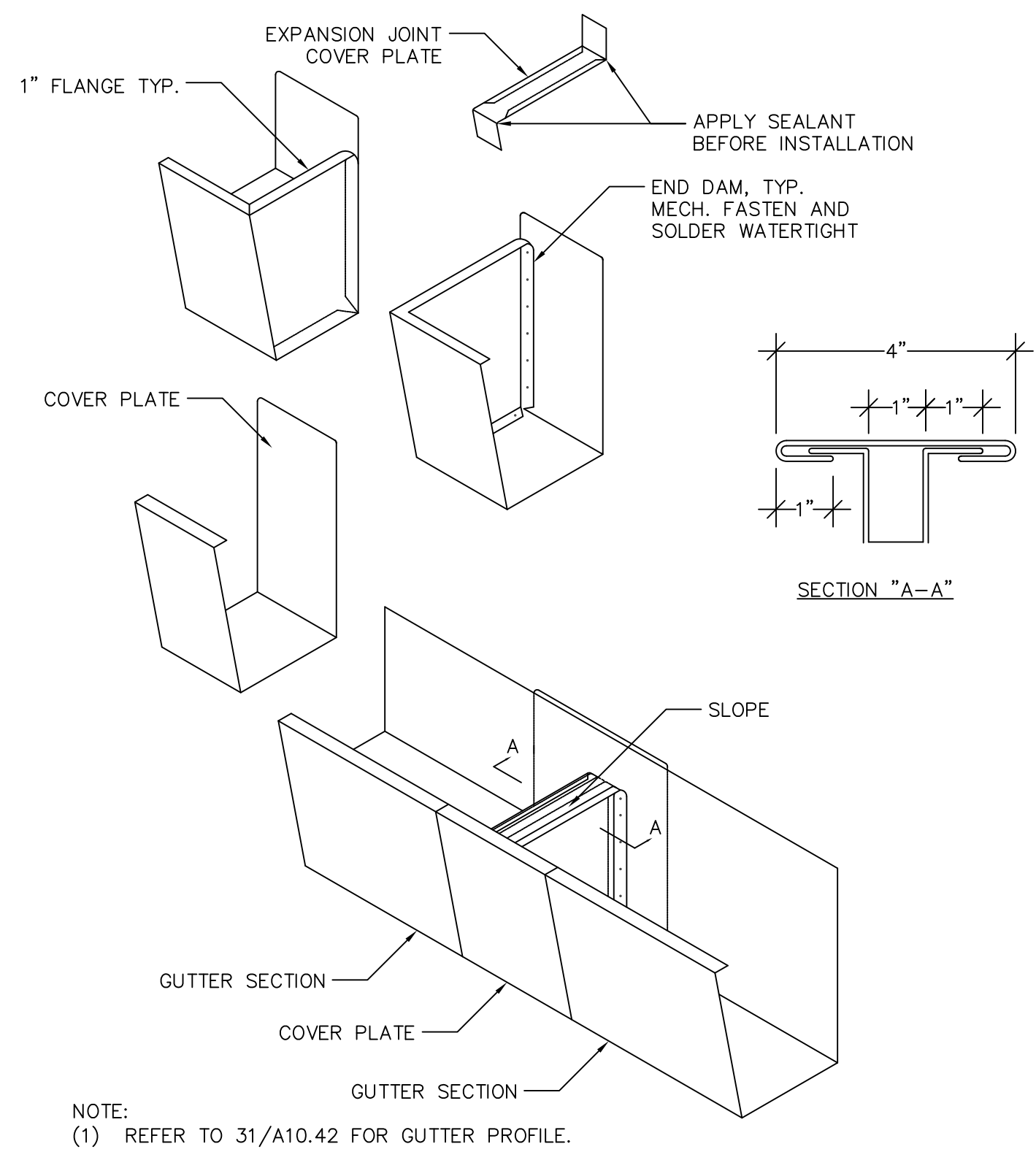
NOTE:
(1) PROVIDE FACTORY-FABRICATED CORNER AND TERMINATION PIECES.

14 ROOF TO WALL-TYPE II
A10.41 SCALE: NOT TO SCALE

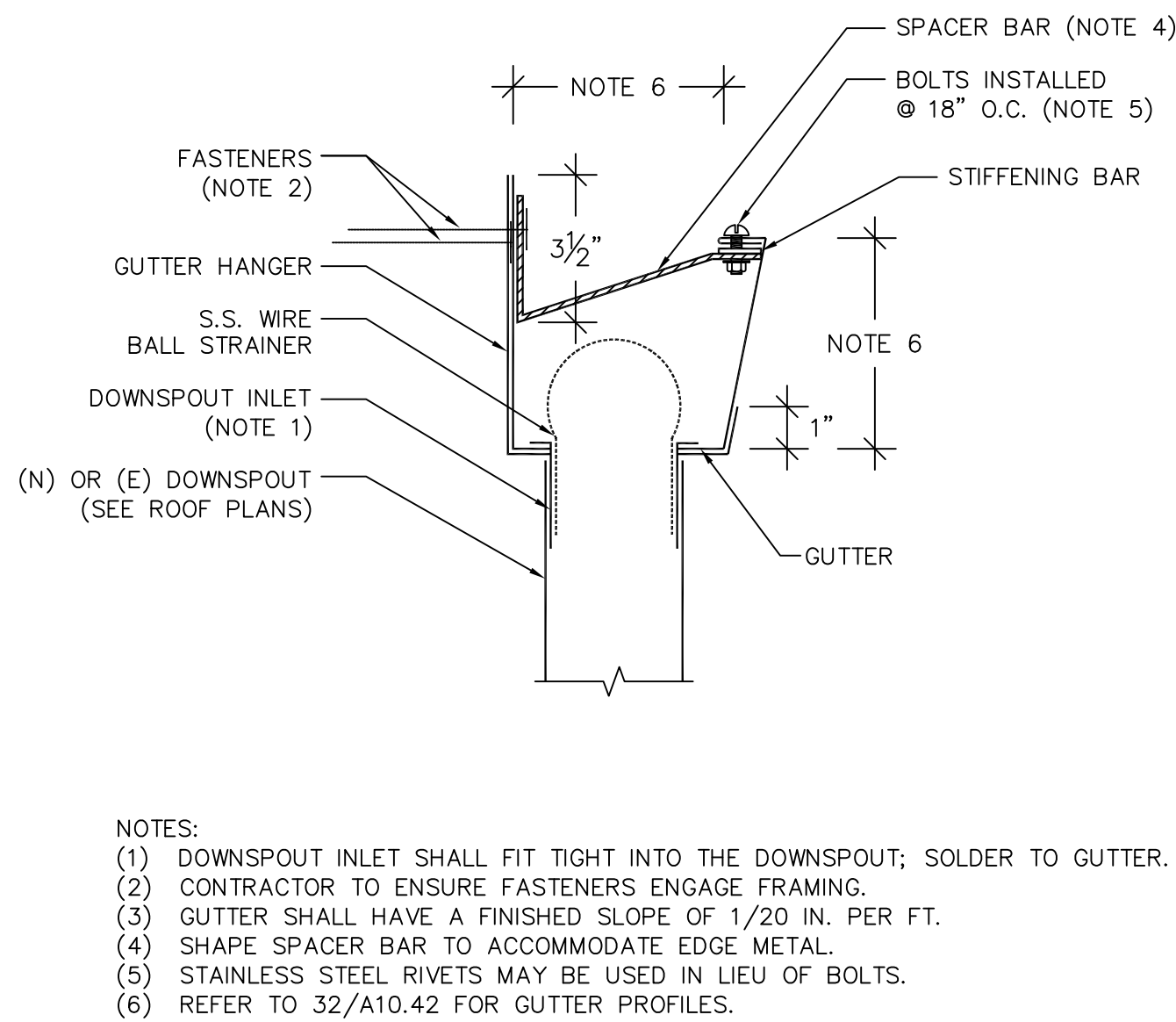


NOTES:
(1) INSTALL CRICKET IF BLOCK LENGTH IS GREATER THAN 2 FT. AND IF ORIENTED PERPENDICULAR TO ROOF SLOPE.
(2) PROVIDE BOND BREAKER TAPE BETWEEN DISSIMILAR METALS.
(3) EMBED FASTENERS IN SEALANT.
(4) RAISE (E) BLOCK HEIGHT AS REQUIRED TO ACHIEVE MINIMUM BASE FLASHING HEIGHT.

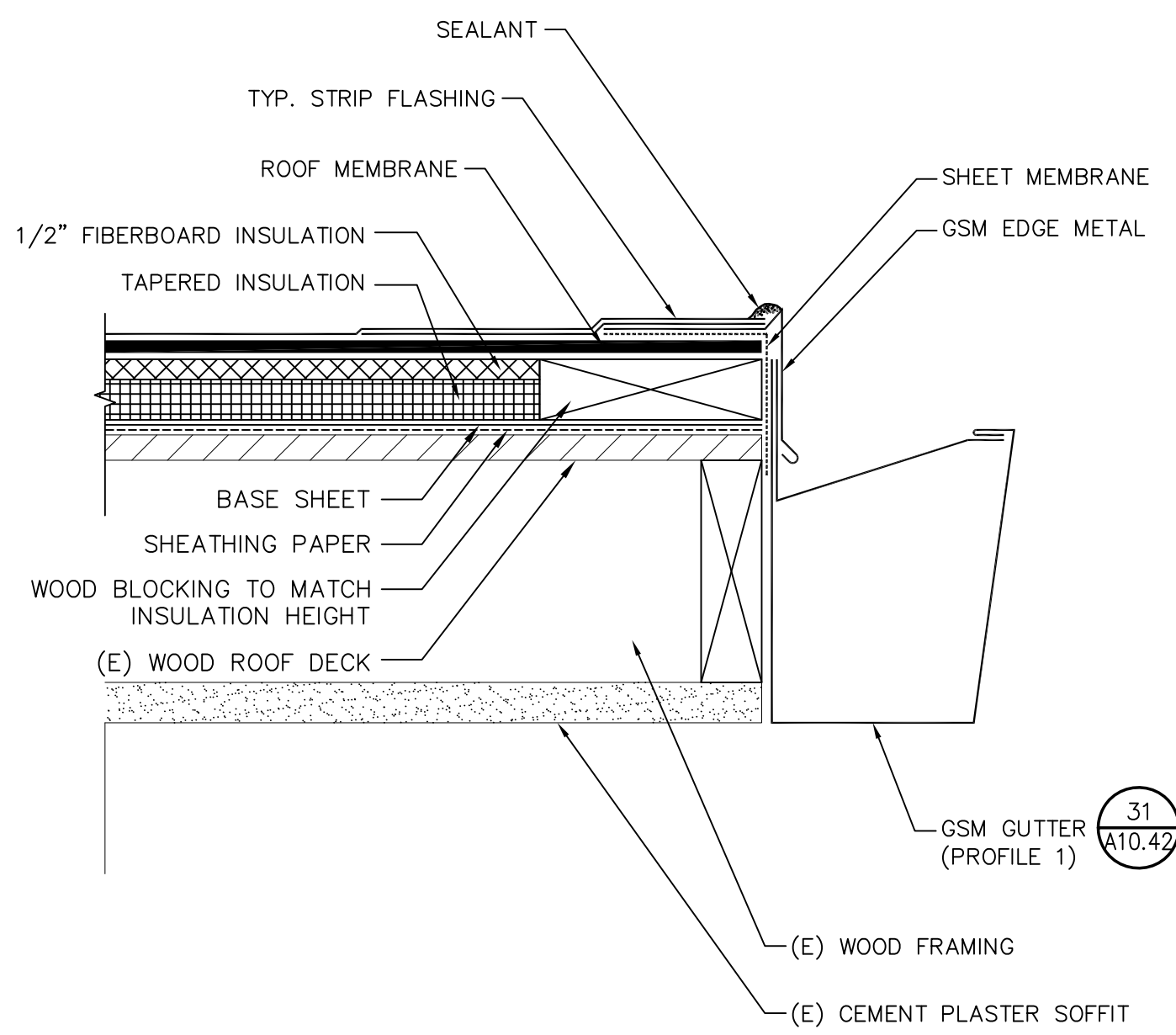
15 CURB
A10.41 SCALE: NOT TO SCALE



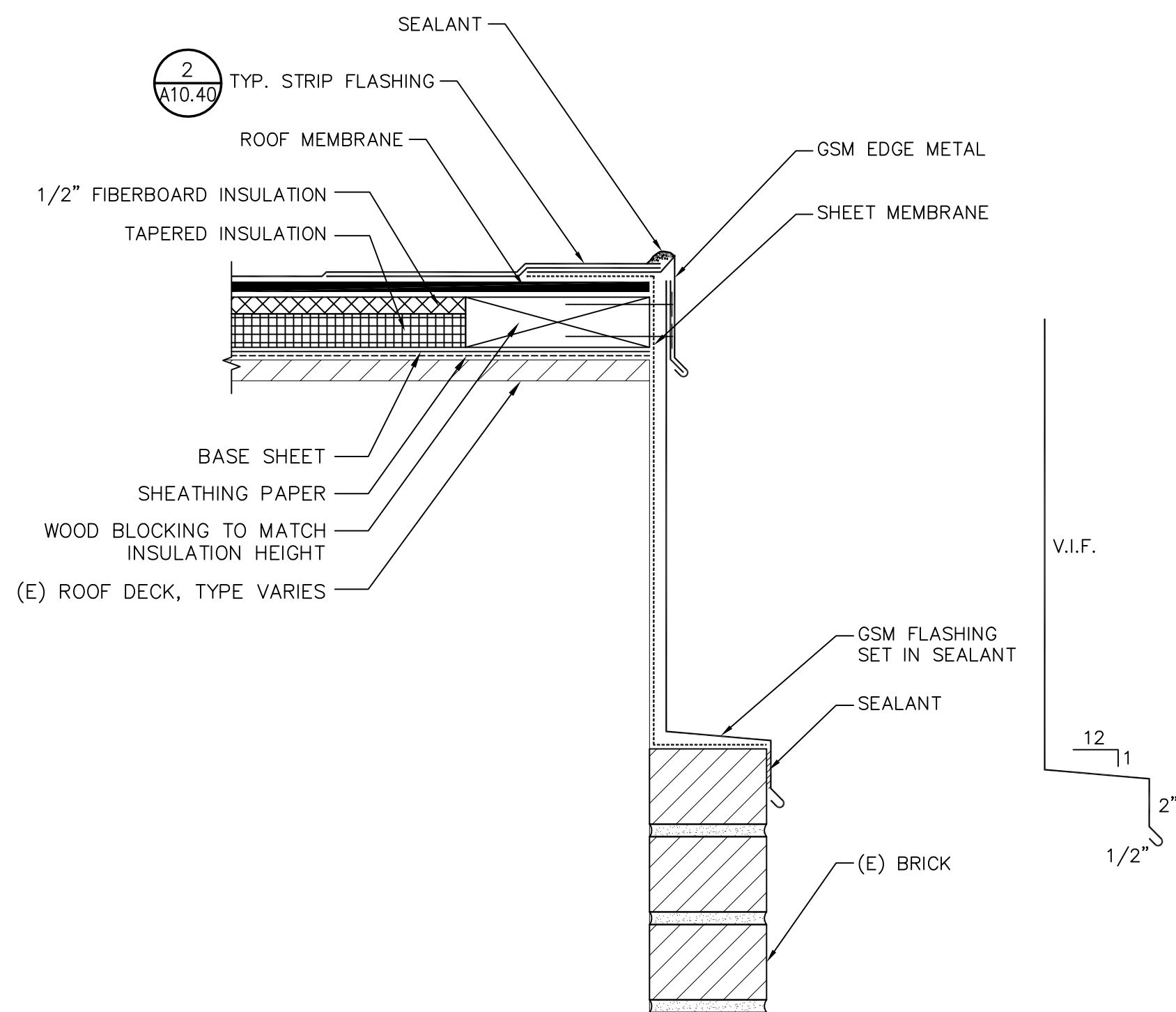
34 GUTTER EXPANSION JOINT
A10.42 SCALE: NOT TO SCALE



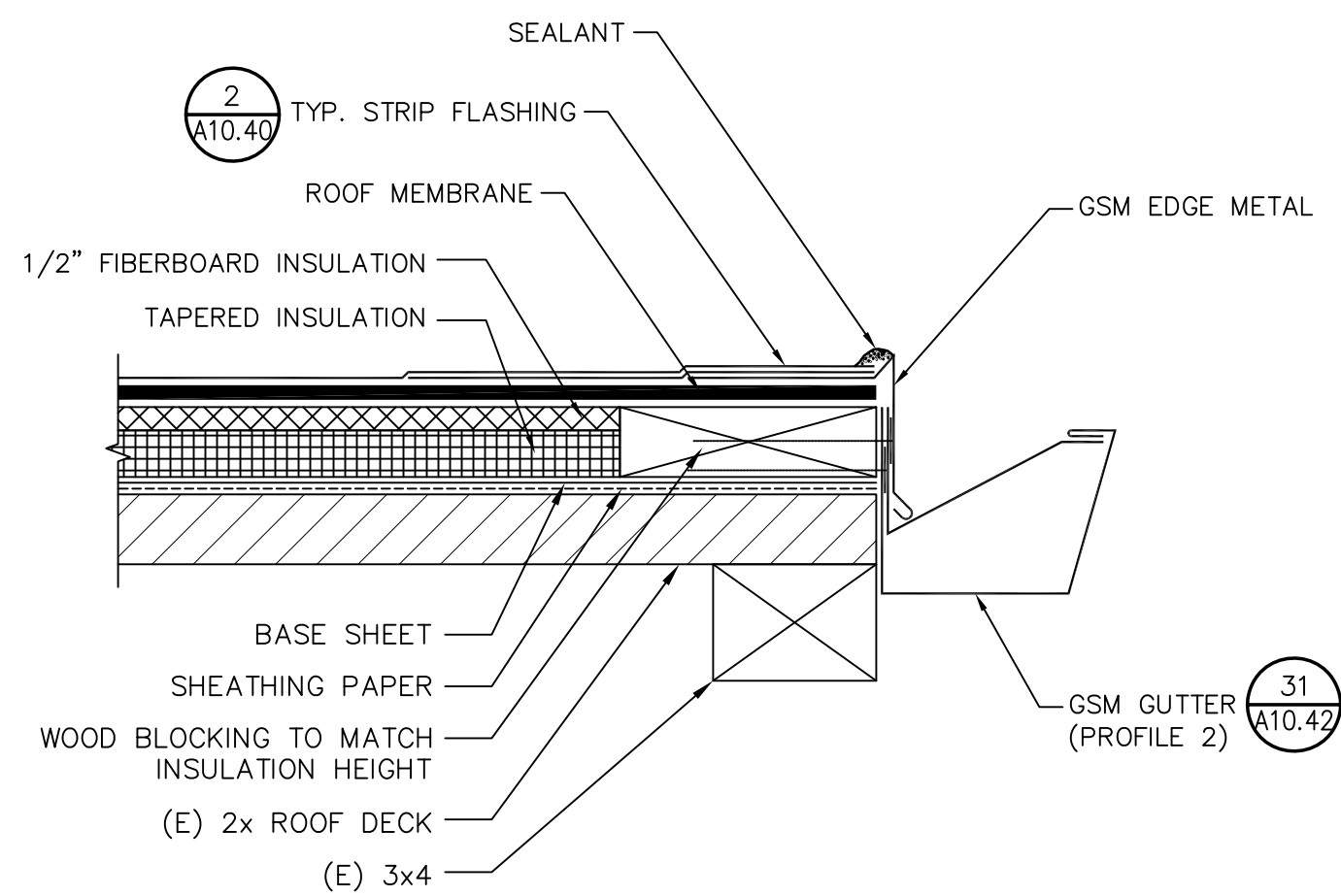
31 GUTTER PROFILE
A10.42 SCALE: 3\"/>



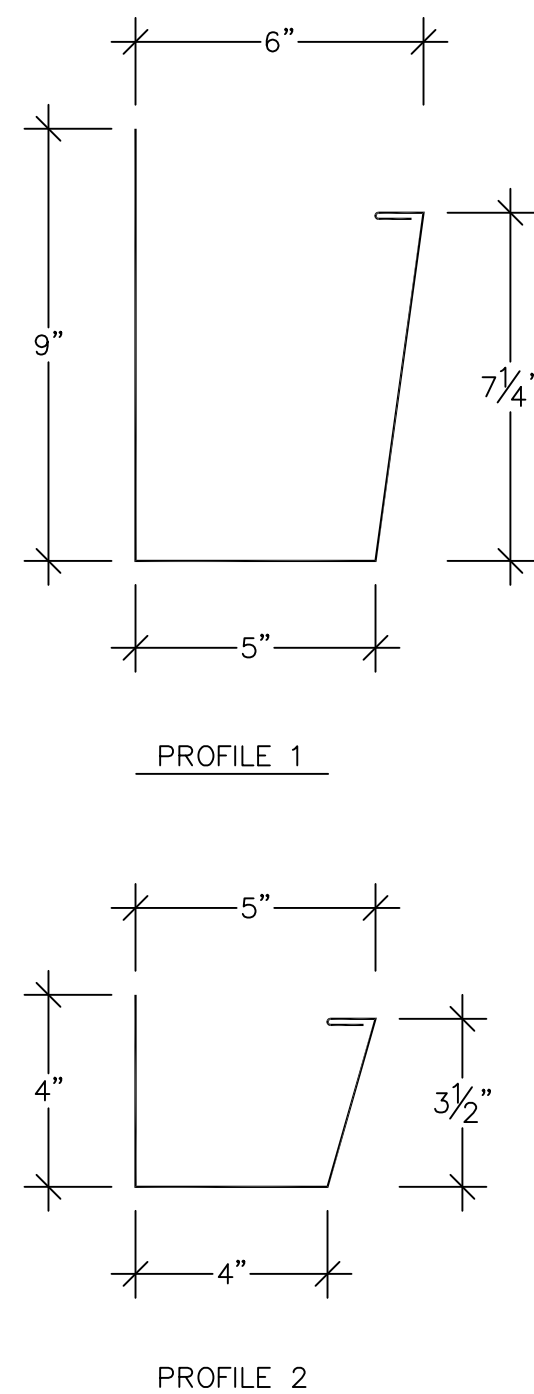
28 ROOF EDGE-TYPE II
A10.42 SCALE: NOT TO SCALE



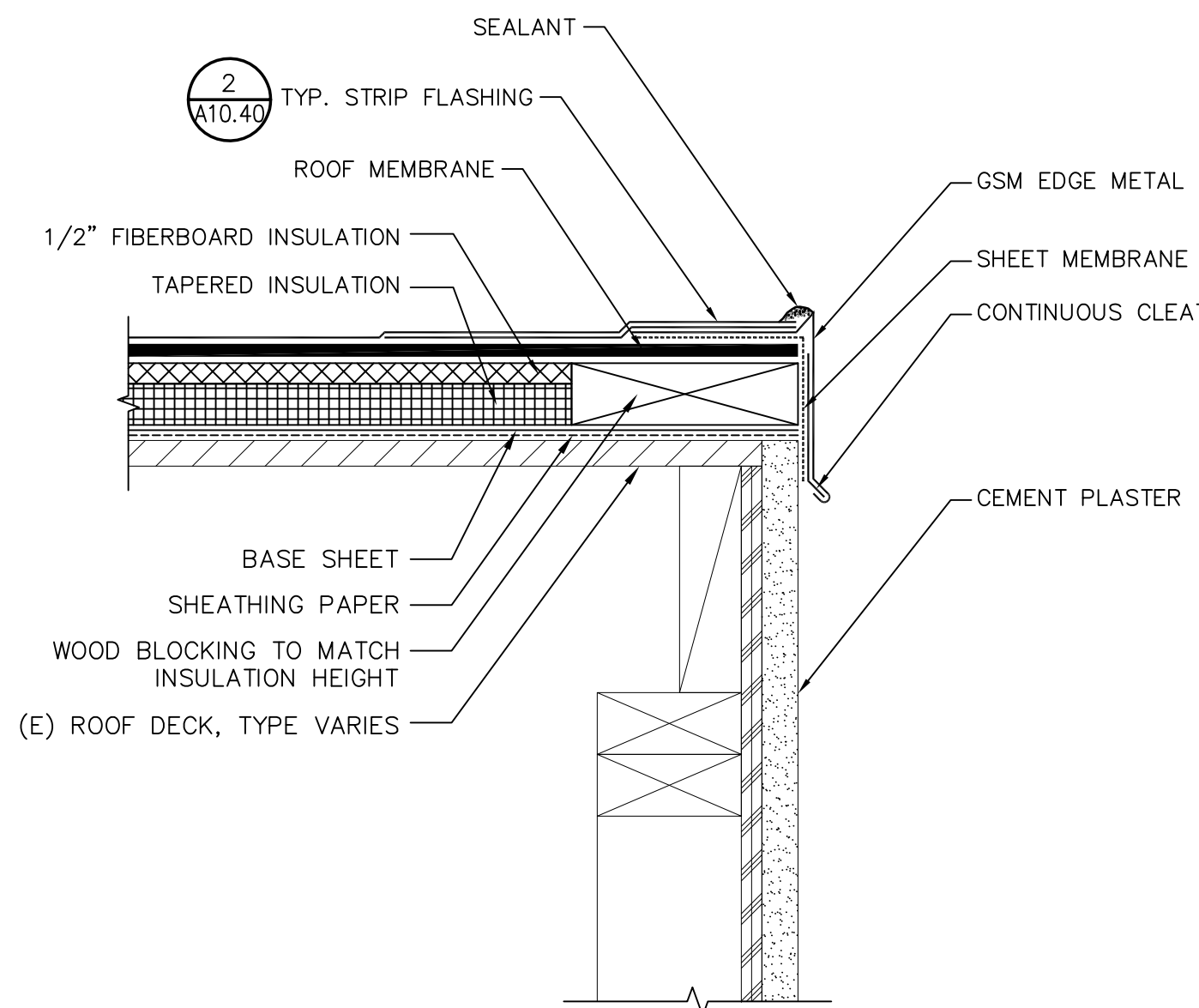
25 ROOF EDGE
A10.42 SCALE: 3\"/>



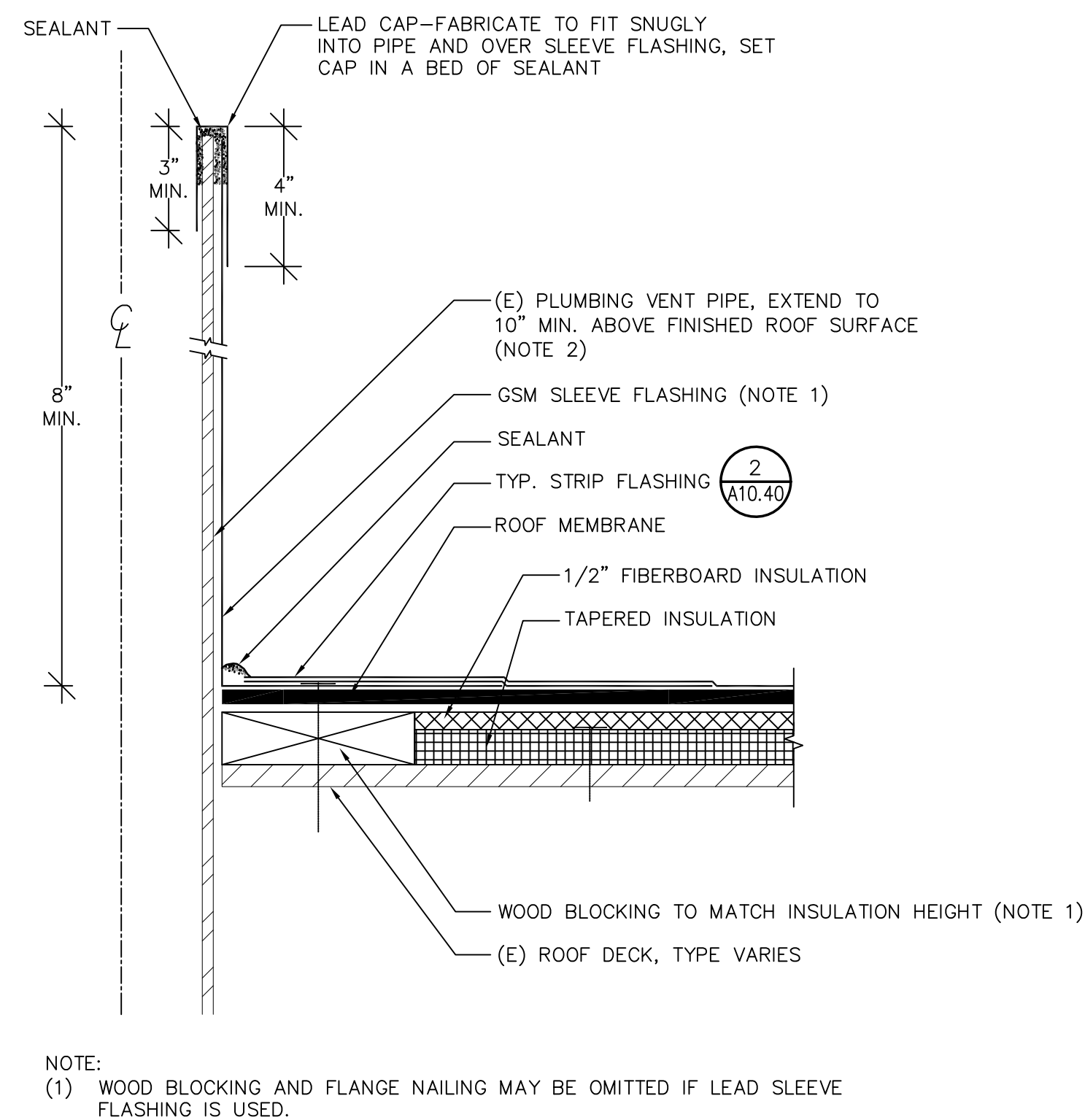
35 ROOF EDGE-CANOPY
A10.42 SCALE: 3\"/>



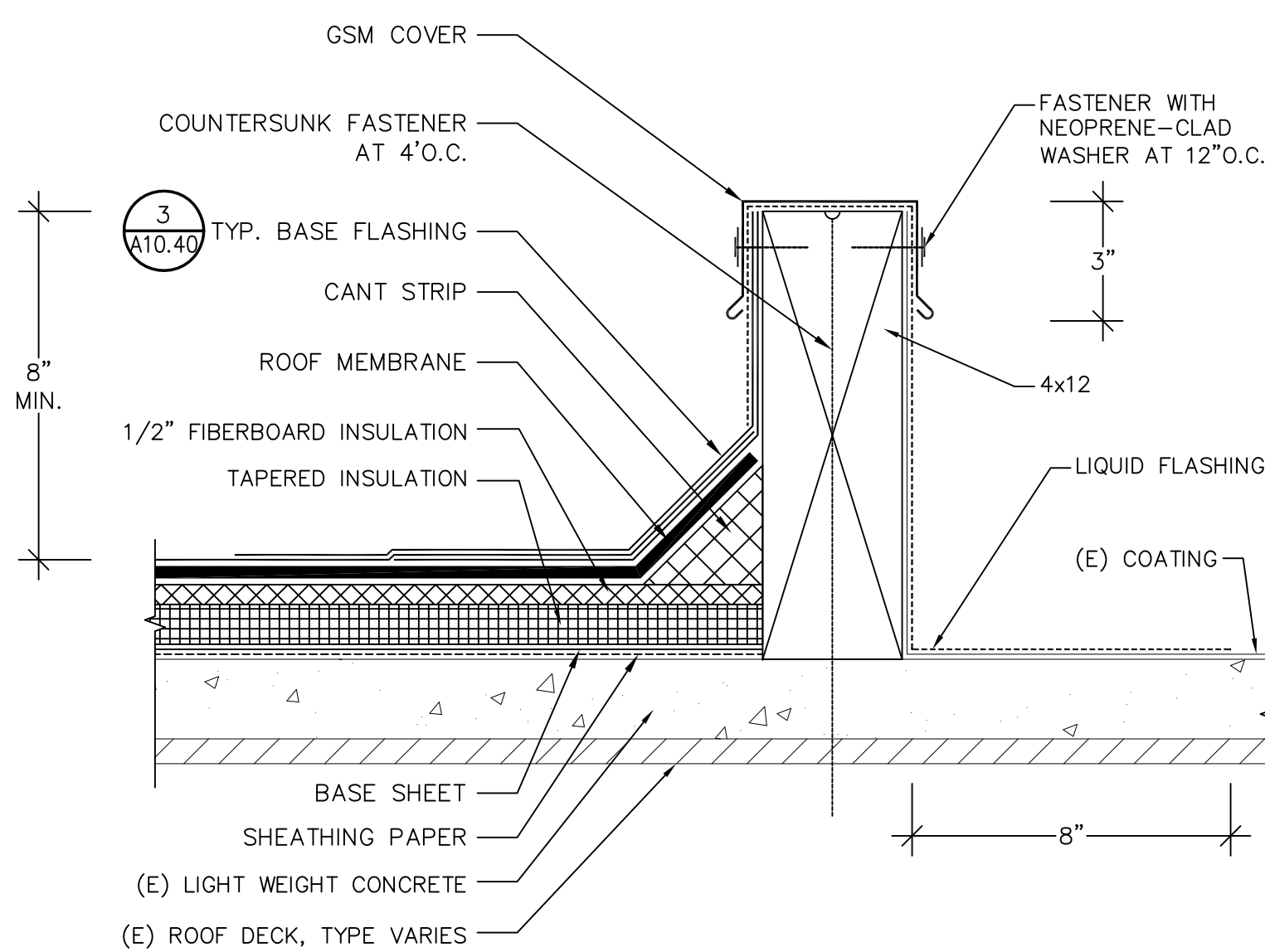
GUTTER SCHEDULE		
PROFILE	ROOF AREAS	
1	A, M	
2	I	



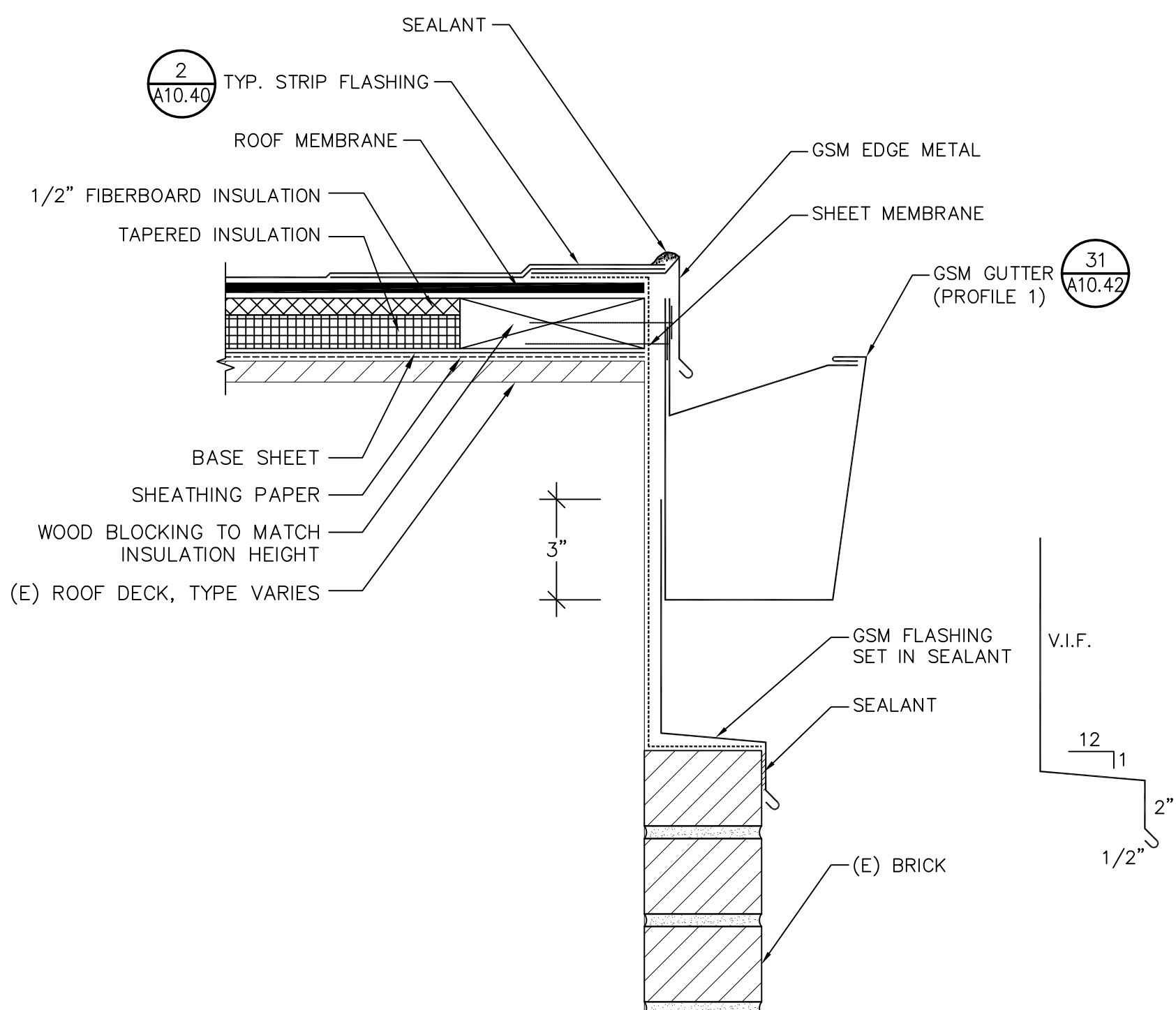
29 ROOF EDGE-TYPE III
A10.42 SCALE: NOT TO SCALE



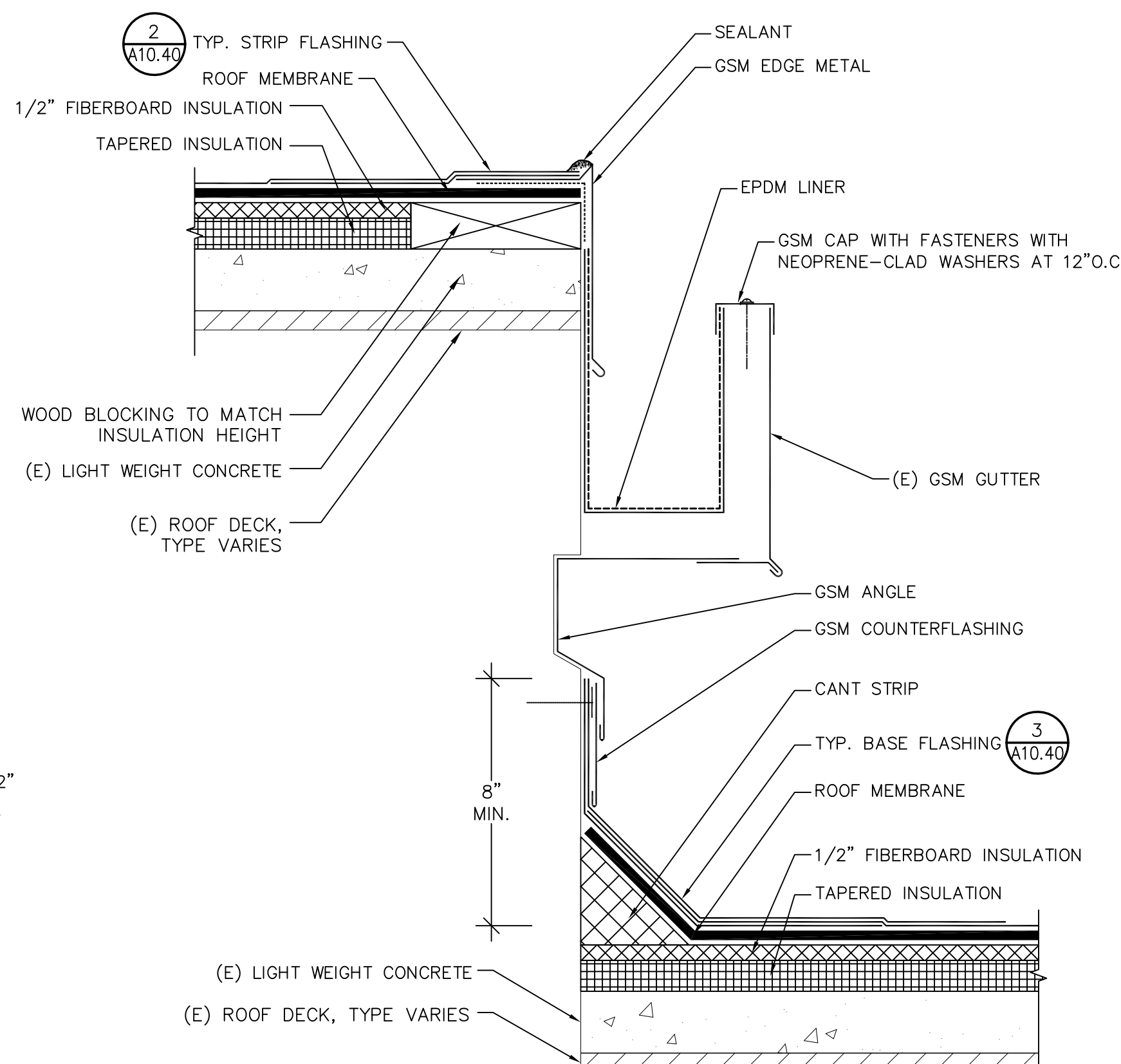
26 VENT PIPE-TYPE II
A10.42 SCALE: NOT TO SCALE



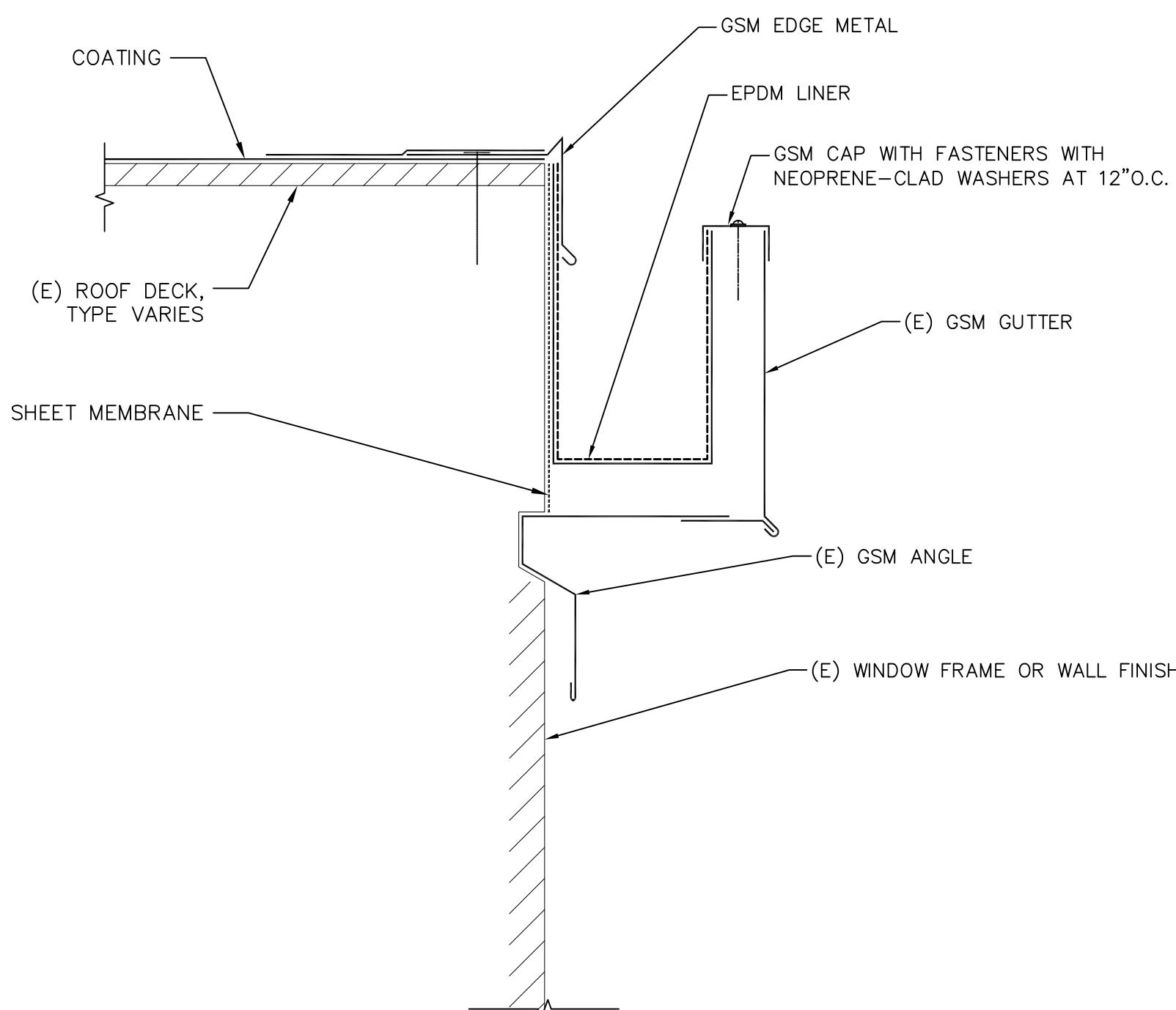
36 ELASTOMERIC/BUILT-UP TIE-IN
A10.42 SCALE: NOT TO SCALE



33 ROOF EDGE-TYPE V
A10.42 SCALE: NOT TO SCALE



30 ROOF EDGE-TYPE IV
A10.42 SCALE: NOT TO SCALE

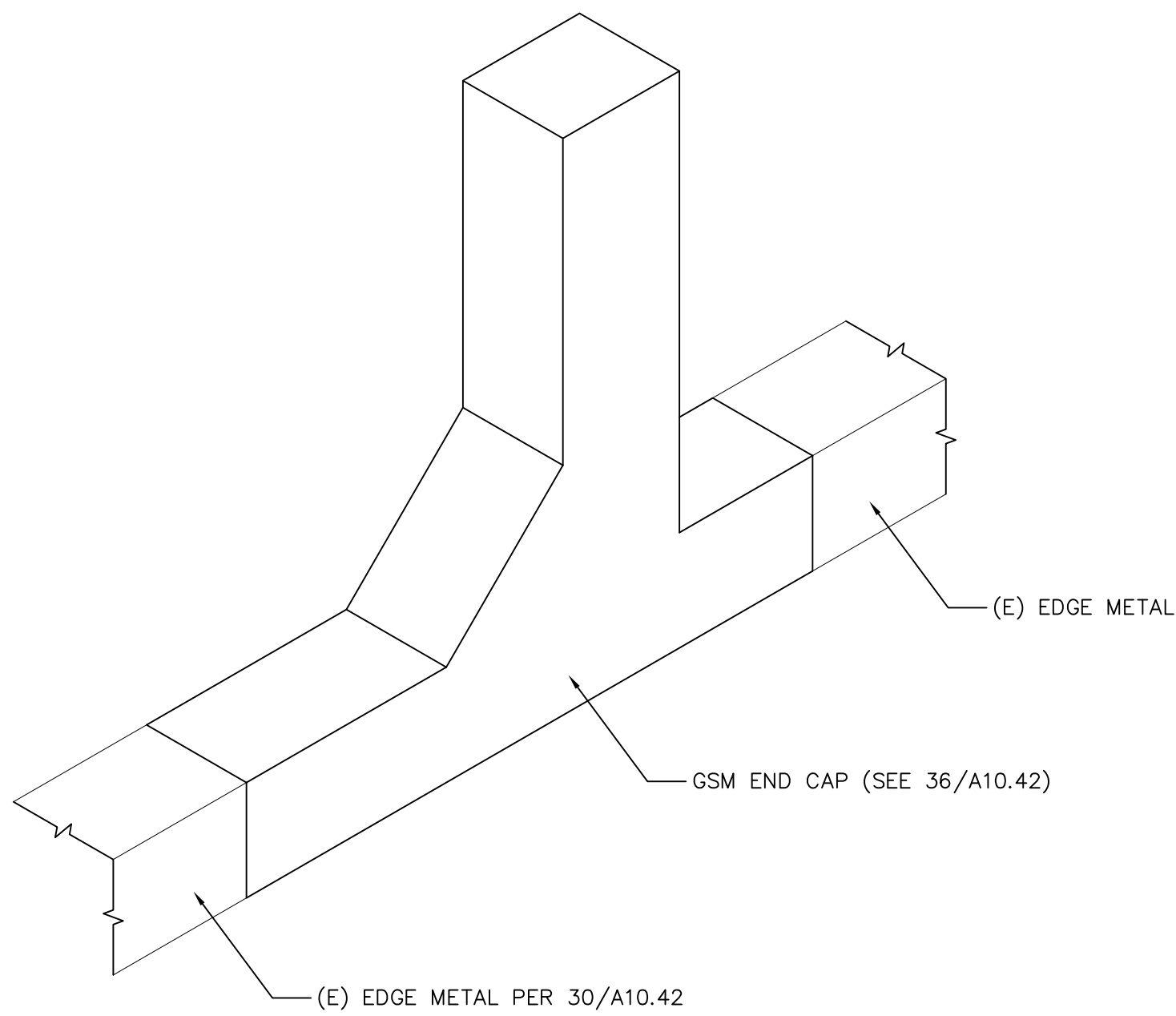


27 ROOF EDGE-TYPE I
A10.42 SCALE: NOT TO SCALE

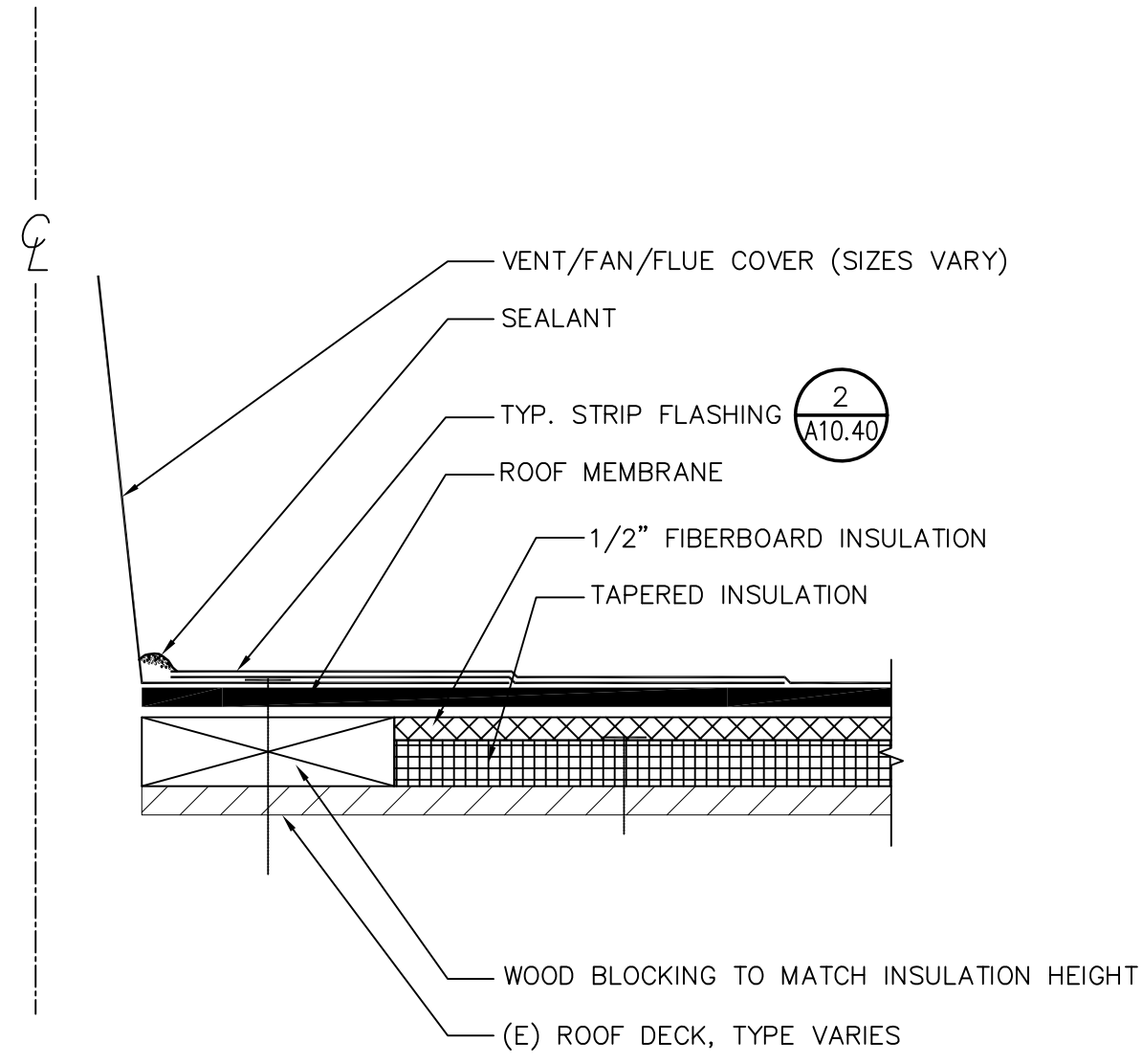


PROJECT
**ROOF REPLACEMENT
PHYSICAL SCIENCES BUILDING
CONTRA COSTA COLLEGE
2600 MISSION BELL DRIVE, SAN PABLO, CALIFORNIA**
OWNER
CONTRA COSTA COMMUNITY COLLEGE DISTRICT
500 COURT STREET
MARTINEZ, CALIFORNIA
AS-BUILT SET

NO.	DATE	DESCRIPTION	BY
	1/7/15	AS-BUILT SET	EY
	6/6/14	REVISED BID SET	EY
	2/25/14	BID SET	EY
	2/6/14	90% REVIEW SET	EY
PROJECT NO. 694710			
CADD FILE			
DESIGNED BY AEB			
DRAWN BY EY			
CHECKED BY AEB			
DATE 18 DEC 2013			
DRAWING SCALE AS NOTED			
SHEET TITLE			
ROOFING DETAILS 25 TO 36			
DRAWING NO.			
A10.42			
OF			

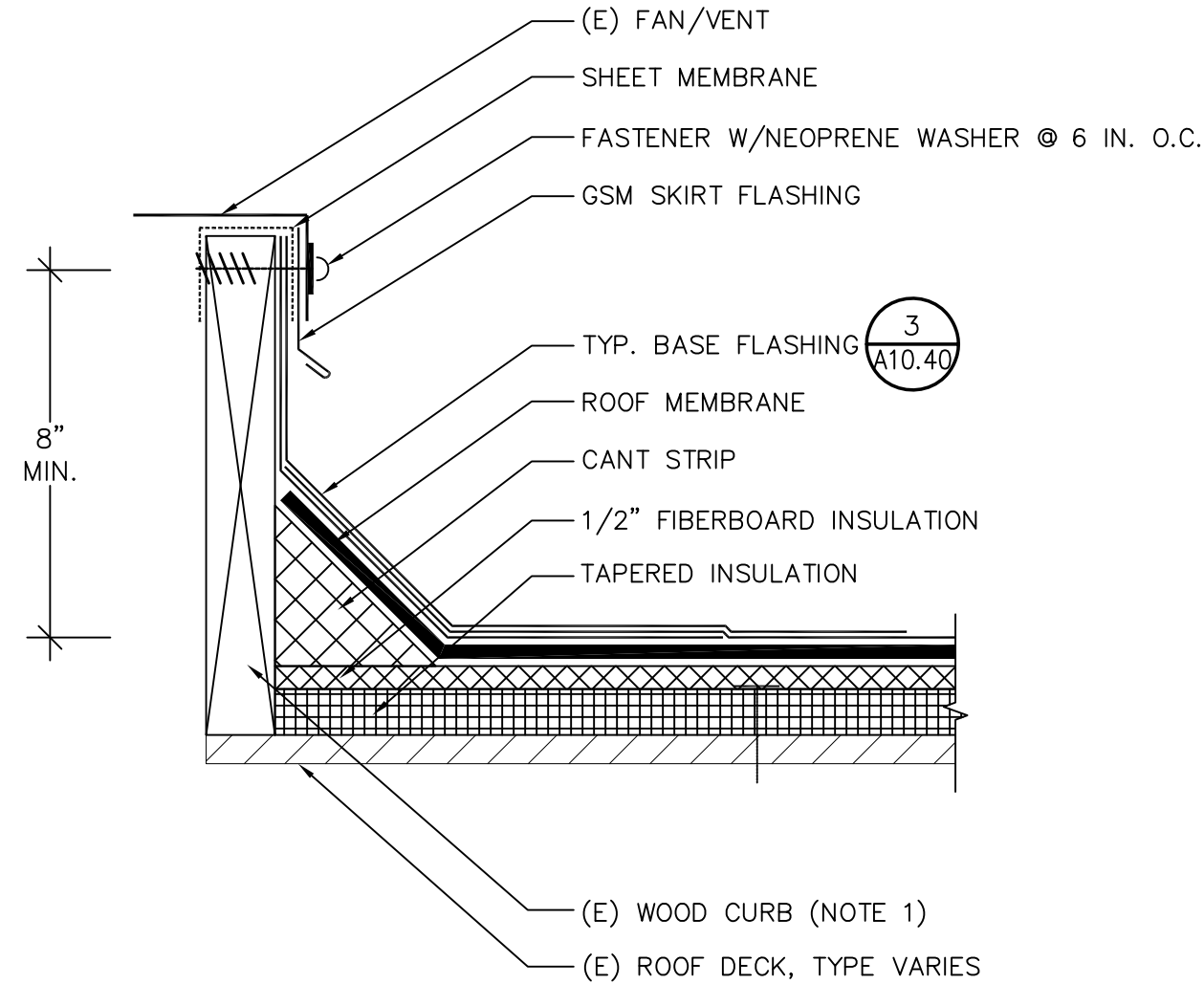


46 END CAP
A10.43 SCALE: NOT TO SCALE



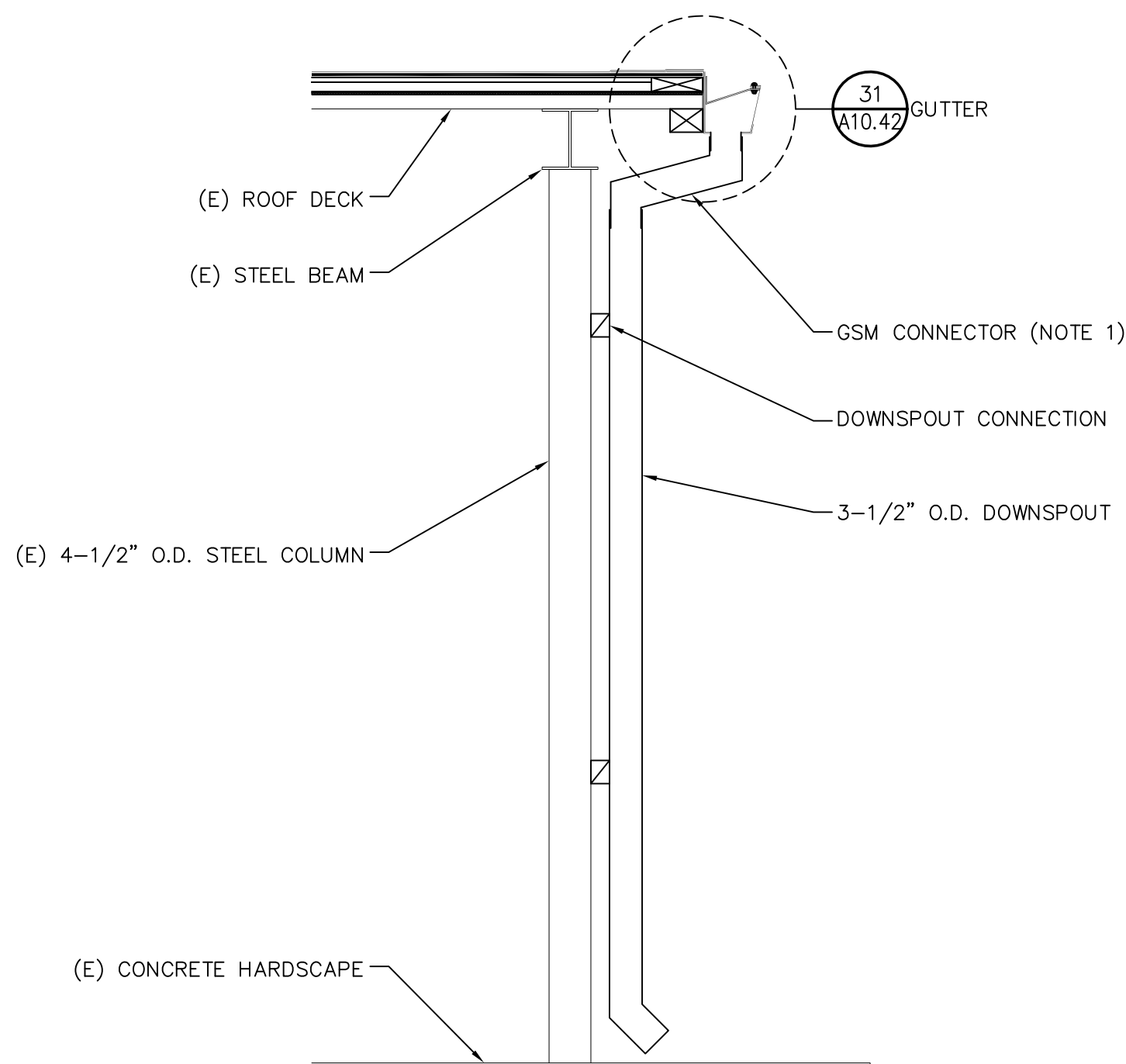
NOTE:
(1) IF (E) FLANGE DOES NOT SATISFY THE DIMENSION LISTED IN THE FLANGE SCHEDULE ON DETAIL 2/A10.40, MECHANICALLY FASTEN AND SOLDER ADDITIONAL PIECE OF SHEET METAL TO ACHIEVE DIMENSION LISTED IN SCHEDULE.

43 FLANGED UNIT-TYPE II
A10.43 SCALE: NOT TO SCALE



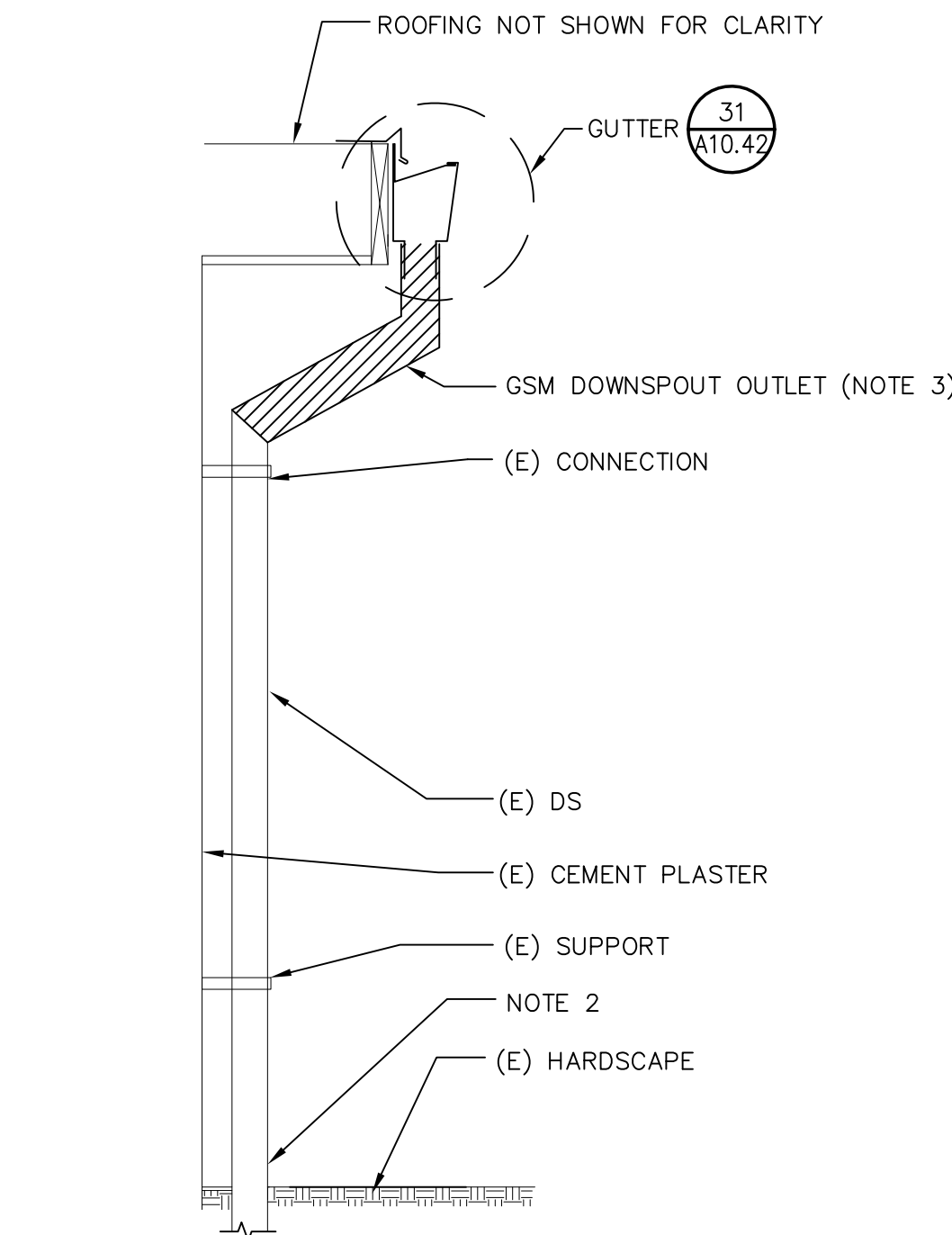
NOTE:
(1) RAISE (E) WOOD CURB AND (E) FAN/VENT AS REQUIRED TO ACHIEVE THE SHOWN MINIMUM BASE FLASHING HEIGHT. REFER TO 4/A10.40 FOR FASTENING INFORMATION.

44 VENT/FAN CURB-TYPE II
A10.43 SCALE: NOT TO SCALE



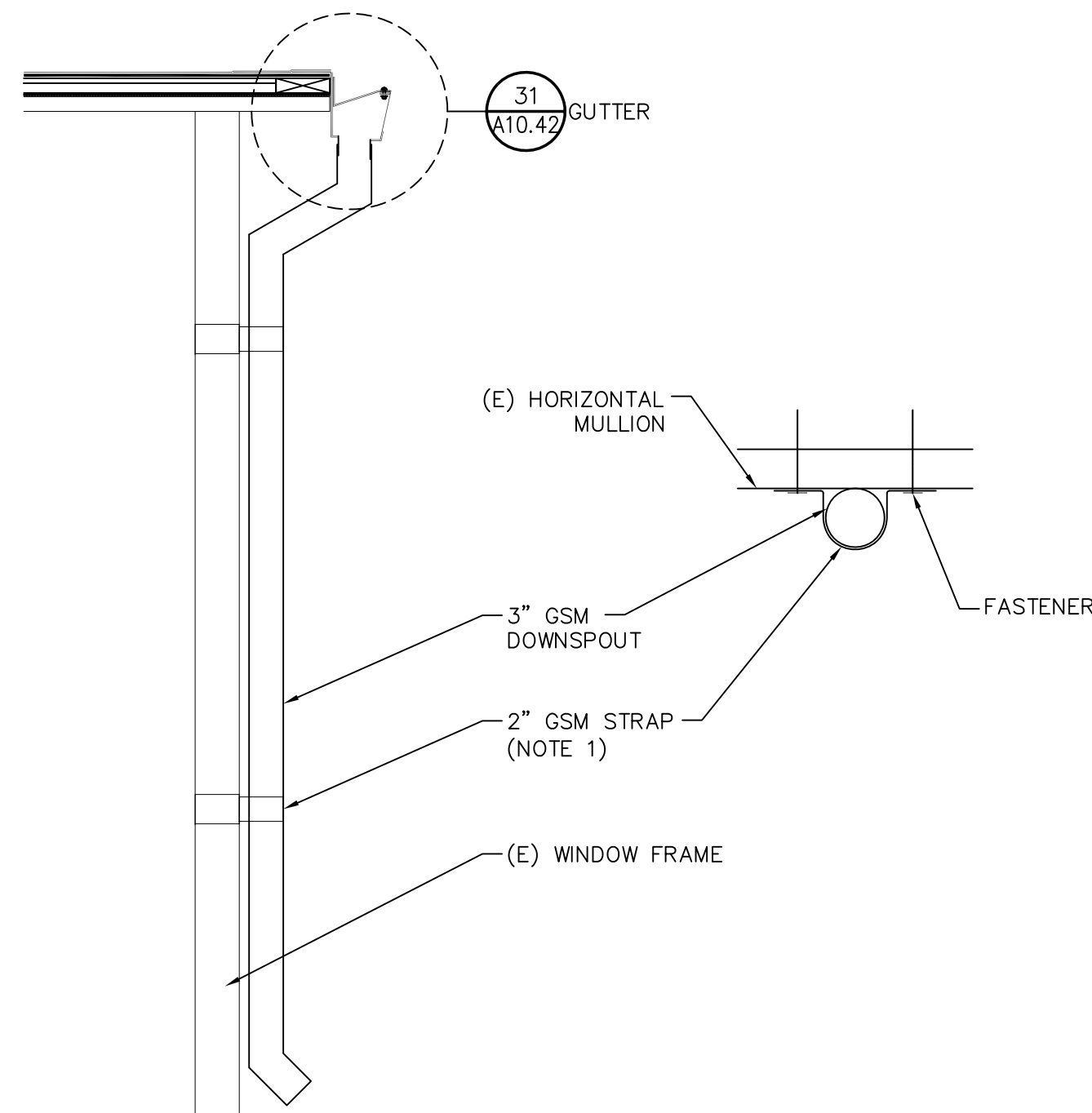
NOTE:
(1) INSERT DOWNSPOUT CONNECTOR 3\"/>

45 CANOPY DOWNSPOUT
A10.43 SCALE: NOT TO SCALE



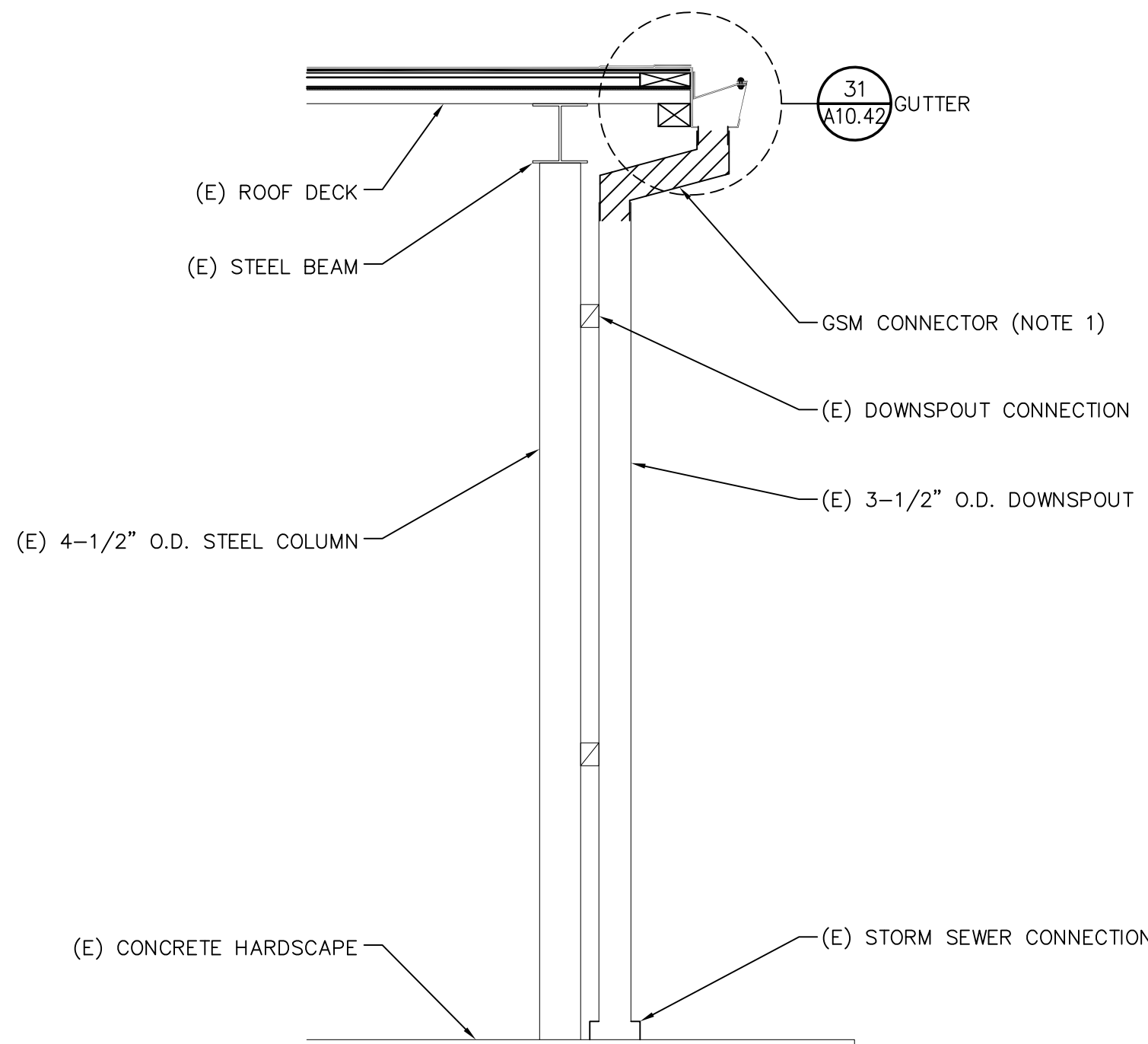
NOTES:
(1) ROOFING NOT SHOWN FOR CLARITY.
(2) INSTALL DOWNSPOUT CLEAN OUT.
(3) INSERT OUTLET 3\"/>

40 DOWNSPOUT-TYPE IV
A10.43 SCALE: NOT TO SCALE



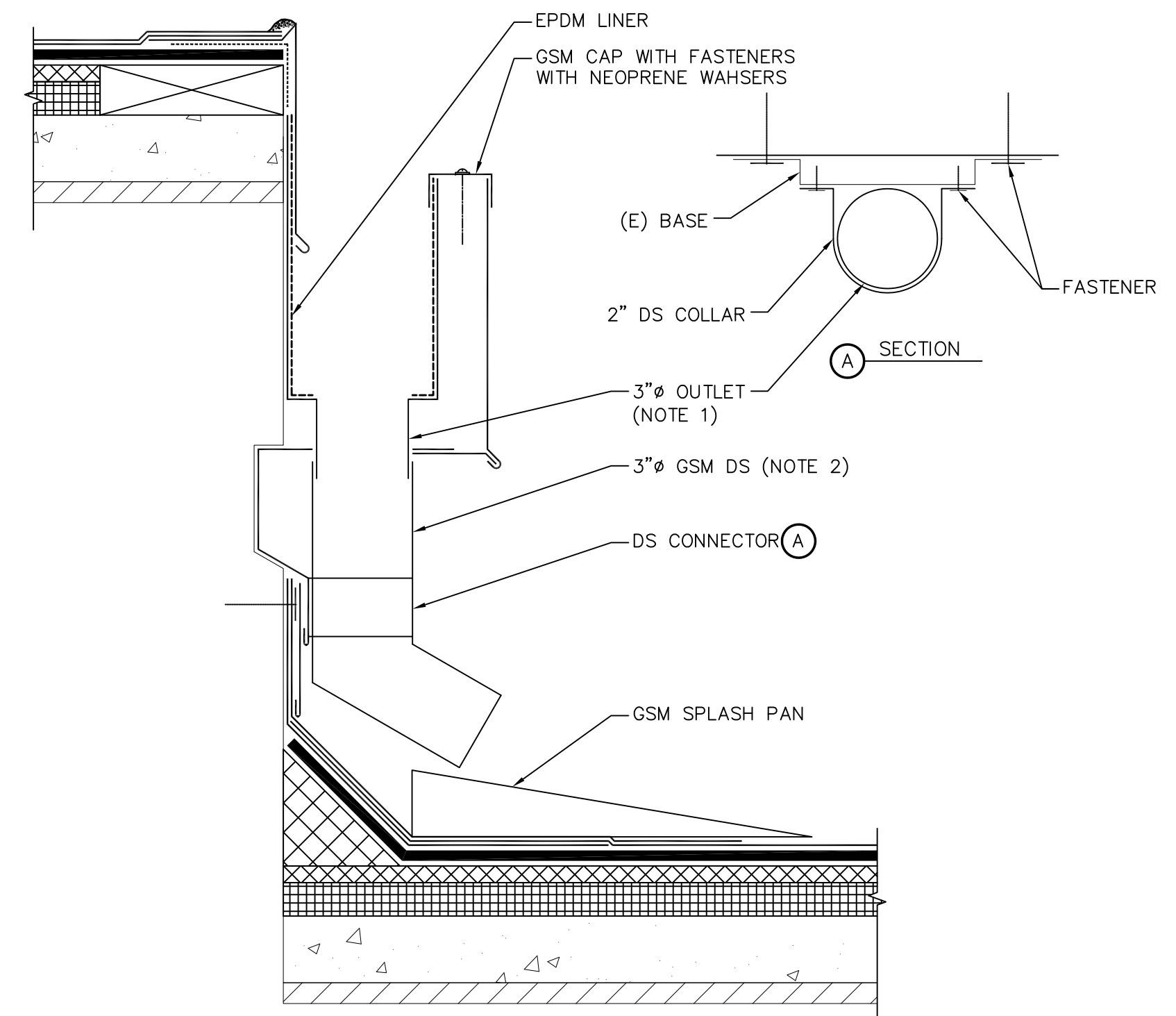
NOTE:
(1) PROVIDE BARRIER BETWEEN DISSIMILAR METALS.

41 (N) DOWNSPOUT
A10.43 SCALE: NOT TO SCALE



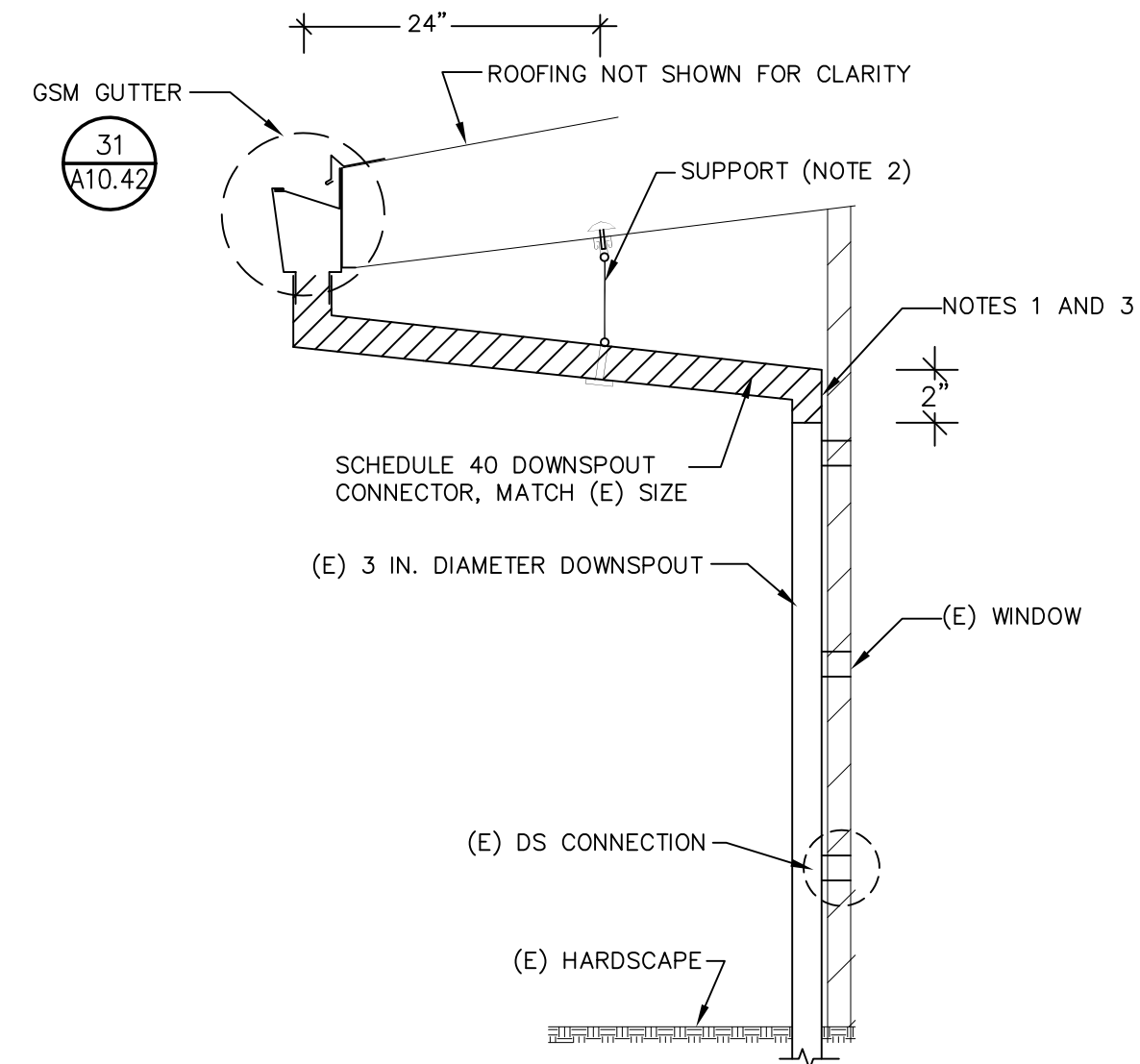
NOTE:
(1) INSERT DOWNSPOUT CONNECTOR 3\"/>

42 CANOPY (E) DOWNSPOUT
A10.43 SCALE: NOT TO SCALE



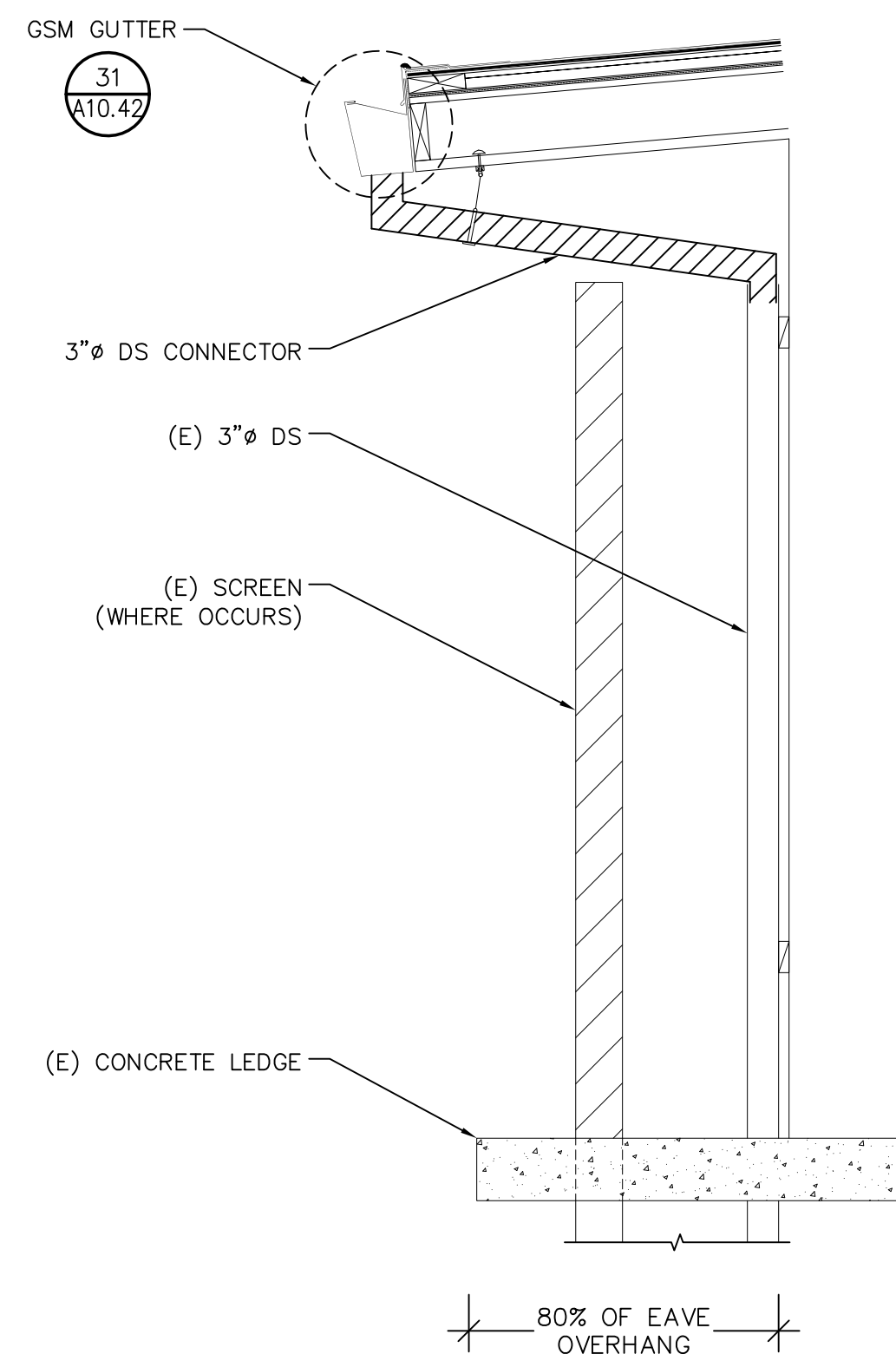
NOTES:
(1) REMOVE (E) 2 IN. DIAMETER OUTLET AND INSTALL 3 IN. DIAMETER OUTLET. PROVIDE MECHANICALLY FASTENED AND SOLDERED JOINT.
(2) LENGTH OF DOWNSPOUT VARIES.

37 DOWNSPOUT-TYPE I
A10.43 SCALE: NOT TO SCALE



NOTES:
(1) CUT TOP OF (E) DOWNSPOUT AS REQUIRED TO INSTALL NEW CONNECTOR.
(2) CONNECT SUPPORT TO SOFFIT WITH UNISTRUT SUPPORT AND CLEVIS.
(3) WELD DOWNSPOUT CONNECTOR TO (E) DOWNSPOUT.

38 DOWNSPOUT-TYPE II
A10.43 SCALE: NOT TO SCALE



39 DOWNSPOUT-TYPE III
A10.43 SCALE: NOT TO SCALE



Gale Associates, Inc.
Engineers and Planners
2570 W. El Camino Real | Suite 320
Mountain View, Ca 94040
P 650.941.1112 F 650.941.1154 www.gainc.com
Boston Baltimore Orlando San Francisco

This drawing and the design and construction features disclosed are proprietary to Gale Associates, Inc. and shall not be altered or reused in whole or part without the express written permission of Gale Associates, Inc.
Copyright©2013



PROJECT
ROOF REPLACEMENT
PHYSICAL SCIENCES BUILDING
CONTRA COSTA COLLEGE
2600 MISSION BELL DRIVE, SAN PABLO, CALIFORNIA

OWNER
CONTRA COSTA COMMUNITY COLLEGE DISTRICT
500 COURT STREET
MARTINEZ, CALIFORNIA

AS-BUILT SET

NO.	DATE	DESCRIPTION	BY
	1/7/15	AS-BUILT SET	EY
	6/6/14	REVISED BID SET	EY
	2/25/14	BID SET	EY
	2/6/14	90% REVIEW SET	EY
PROJECT NO. 694710			
CADD FILE			
DESIGNED BY AEB			
DRAWN BY EY			
CHECKED BY AEB			
DATE 18 DEC 2013			
DRAWING SCALE AS NOTED			

ROOFING
DETAILS
37 TO 48

DRAWING NO.

A10.43

OF



Gale Associates, Inc.
Engineers and Planners
2570 W. El Camino Real | Suite 320
Mountain View, Ca 94040
P 650.941.1112 F 650.941.1154 www.gainc.com
Boston Baltimore Orlando San Francisco

This drawing and the design and construction features disclosed are proprietary to Gale Associates, Inc. and shall not be altered or reused in whole or part without the express written permission of Gale Associates, Inc. Copyright©2013



PROJECT
ROOF REPLACEMENT
PHYSICAL SCIENCES BUILDING
CONTRA COSTA COLLEGE
2600 MISSION BELL DRIVE, SAN PABLO, CALIFORNIA
OWNER
CONTRA COSTA COMMUNITY COLLEGE DISTRICT
500 COURT STREET
MARTINEZ, CALIFORNIA
AS-BUILT SET

NO.	DATE	DESCRIPTION	BY
	1/7/15	AS-BUILT SET	EY
	6/6/14	REVISED BID SET	EY
	2/25/14	BID SET	EY
	2/6/14	90% REVIEW SET	EY

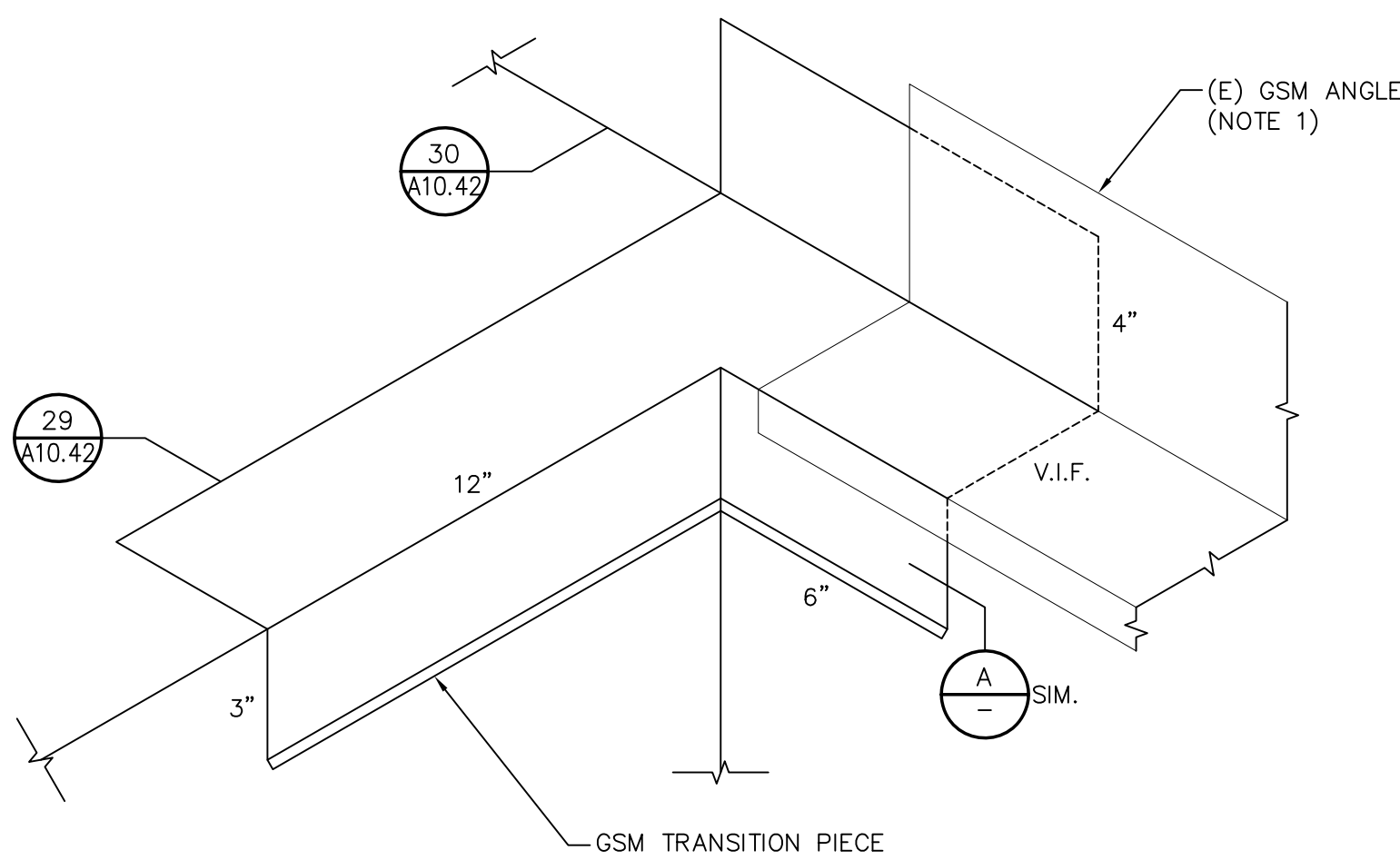
PROJECT NO.	694710
CADD FILE	
DESIGNED BY	AEB
DRAWN BY	EY
CHECKED BY	AEB
DATE	18 DEC 2013
DRAWING SCALE	AS NOTED
SHEET TITLE	

ROOFING
DETAILS
49 TO 60

DRAWING NO.

A10.44

OF



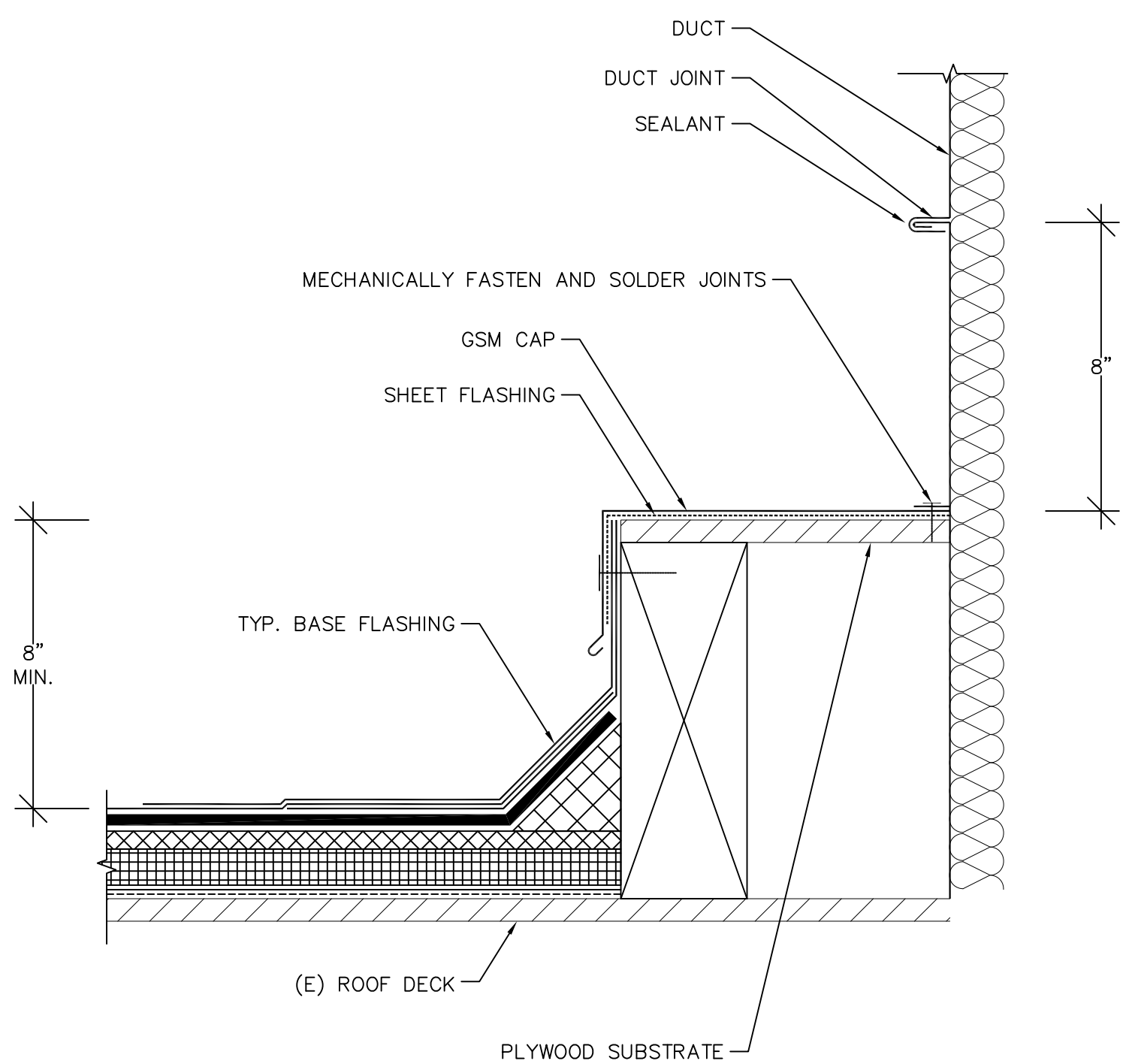
NOTE:
(1) REMOVE (E) GSM SECTION TO INSTALL GSM TRANSITION PIECE.

58 GSM TRANSITION PIECE
A10.44 SCALE: NOT TO SCALE

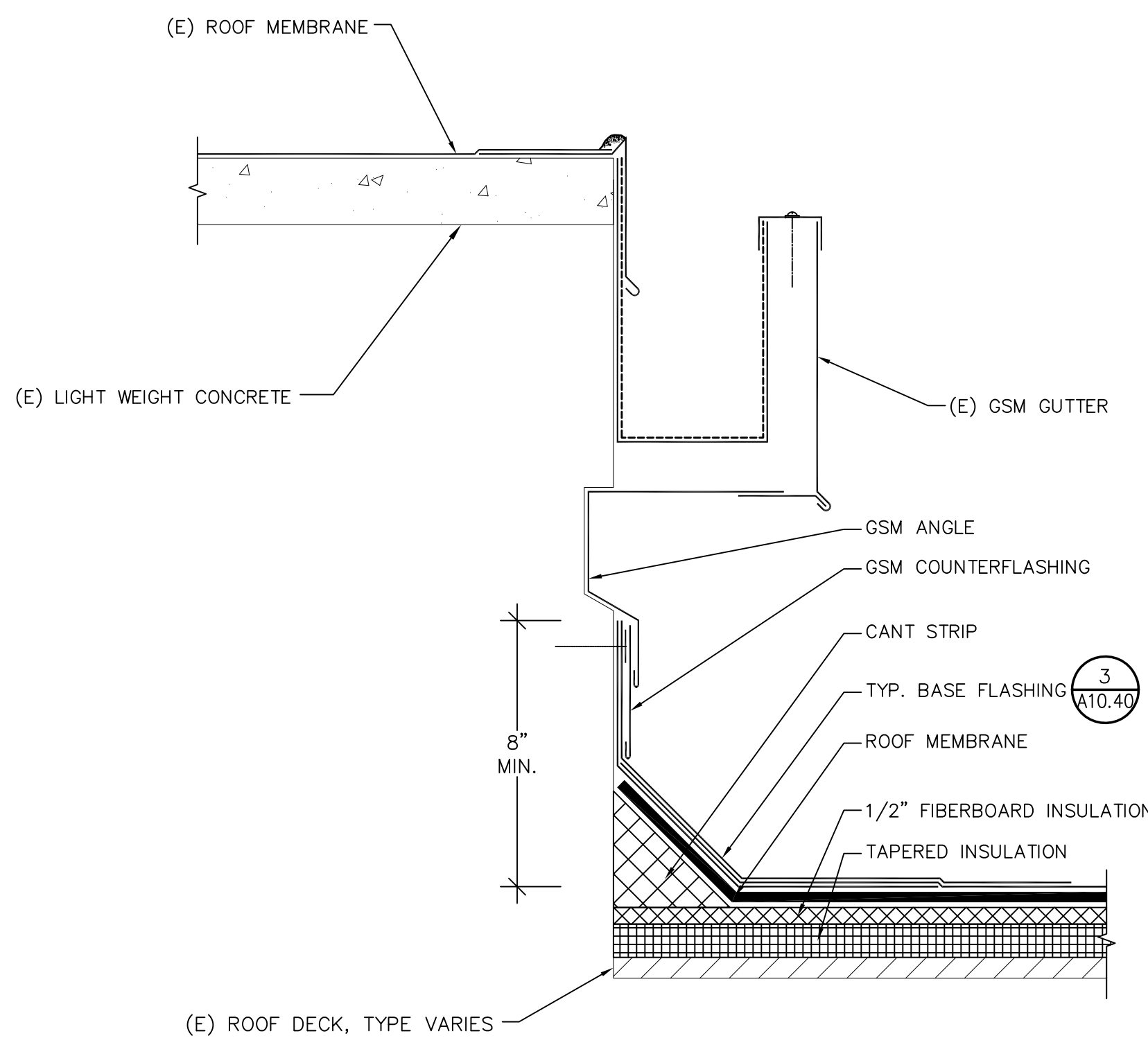
55 NO DETAIL
A10.44 SCALE: NOT TO SCALE

52 NO DETAIL
A10.44 SCALE: NOT TO SCALE

49 NO DETAIL
A10.44 SCALE: NOT TO SCALE



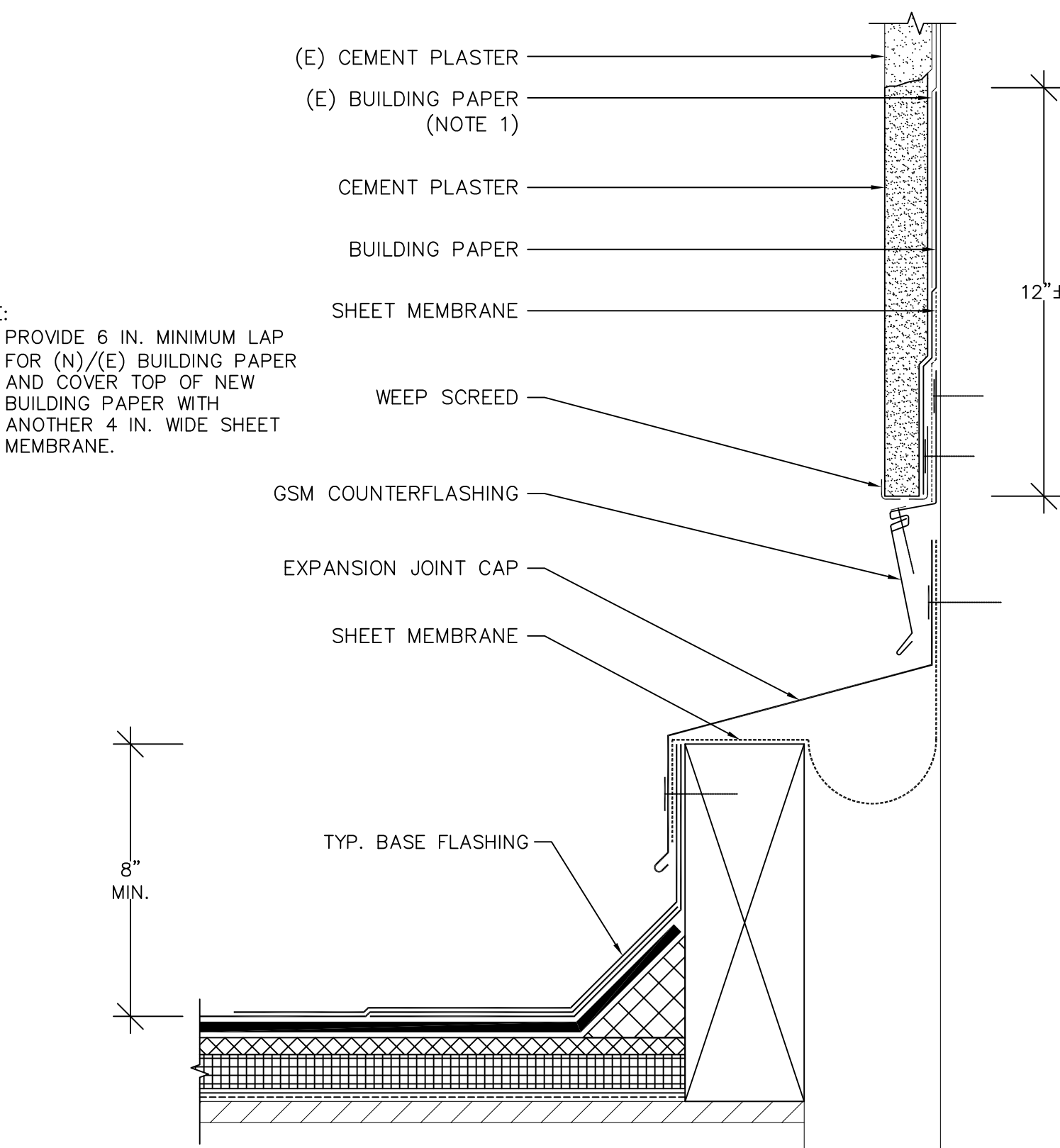
56 DUCT PENETRATION-TYPE II
A10.44 SCALE: NOT TO SCALE



53 ROOF EDGE-TYPE VII
A10.44 SCALE: NOT TO SCALE

50 NO DETAIL
A10.44 SCALE: NOT TO SCALE

NOTE:
(1) PROVIDE 6 IN. MINIMUM LAP FOR (N)/(E) BUILDING PAPER AND COVER TOP OF NEW BUILDING PAPER WITH ANOTHER 4 IN. WIDE SHEET MEMBRANE.



57 EXPANSION JOINT
A10.44 SCALE: NOT TO SCALE

54 NO DETAIL
A10.44 SCALE: NOT TO SCALE

51 NO DETAIL
A10.44 SCALE: NOT TO SCALE

59 NO DETAIL
A10.44 SCALE: NOT TO SCALE

60 NO DETAIL
A10.44 SCALE: NOT TO SCALE